To date, there are 362 CDM projects submitted to the DNA – 224 Project Idea Notes (PINs) and 138 Project Design Documents (PDDs). Out of 138 PDDs, 90 have been registered (35 Programme of Activities) by the CDM Executive Board as CDM projects (12 Issued with CER’s), and 48 are at different stages of the project cycle – DNA approval, validation stage and/or request for review. The projects submitted to the DNA for initial review and approval cover the following types, bio-fuels, energy efficiency, waste management, cogeneration, fuel switching and hydro-power, and cover sectors like manufacturing, mining, agriculture, energy, waste management, housing, transport and residential. The table below is a consolidated list of projects at PDD and PIN stages. To view more information on the registered projects, please go to www.unfccc.int.

<table>
<thead>
<tr>
<th>Date submitted to DNA</th>
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<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer /Owner</th>
</tr>
</thead>
</table>
| 10 March 2005        | 0079            | Kuyasa Low-Cost Urban Housing Energy Project | Energy efficiency project involving the installation of solar water heaters, ceiling insulation and compact fluorescent light bulbs (CFLs) in RDP houses. | Energy Efficiency | 7 000                          | 21               | • Approved by the DNA  
  • The project was registered in August 27, 2005.  
  • The project was awarded the Gold Standards.  
  • The implementation process has begun | South African Export Development Fund  
Mr Osman Asmal  
Tel: +27 012 349 1901  
Fax:+2716 976 2650  
Email: osman.asmal@capetown.gov.za |
| 11 Oct 2005          | 2692            | Bethlehem Hydro | Bethlehem Hydro (Pty) Ltd aims to build a hydro power plant. | Renewable Energy | 27 000                         | 20               | • Approved by the DNA  
  • The project was registered on 08 Oct 2009 | NuPlanet BV  
Mr. Anton-Lewis Olivier  
Tel: +27 12 349 1901  
Email: al@nuplanet.co.za |
| 11 Oct 2005          | 0358            | Rosslyn Brewery Fuel-Switch Project | This is fuel switching project replacing coal with natural gas and biogas as energy source. | Fuel Switch | 107 000                       | 7                | • Approved by the DNA  
  • The project was registered on 29 Sep 2006  
  • The implementation process has begun | South African Brewery  
Mr. Tony Cole  
Tel: 031 910 1344  
Cell: 082 924 2176  
Fax: 086 687 1124  
Email: Tony.Cole@za.sabmiller.com |
<table>
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<tr>
<th>Date submitted to DNA</th>
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<tbody>
<tr>
<td>10 Oct 2005</td>
<td>0177</td>
<td>Lawley Fuel Switch Project</td>
<td>The project entails the conversion from coal to natural gas as thermal fuel used in clay brick baking kilns at the Lawley Corobrik factory.</td>
<td>Fuel Switch</td>
<td>19 000</td>
<td>10</td>
<td>• Approved by the DNA</td>
<td>Corobrick Mr. Dirk Meyer Tel: 031 560 3419 Fax: 031 560 3483 Email: <a href="mailto:dirk.meyer@corobrik.co.za">dirk.meyer@corobrik.co.za</a></td>
</tr>
<tr>
<td>22 Dec 2005</td>
<td>0446</td>
<td>PetroSA Biogas-to-energy Project</td>
<td>The project aims to utilize waste gas presently flared to generate electricity to be used onsite.</td>
<td>Cogeneration</td>
<td>29 000</td>
<td>10</td>
<td>• Approved by the DNA</td>
<td>MethCap (Pty) Ltd Adv Johan van der Berg Tel: 021 883 3474 Fax: 021 425 5055 Cell: 082 925 5680 Email: <a href="mailto:johanyvb@cdmafrica.com">johanyvb@cdmafrica.com</a></td>
</tr>
<tr>
<td>6 Feb 2006</td>
<td></td>
<td>Emfuleni Power Project</td>
<td>The project entails capturing and utilization of off-gases to generate electricity from the grid.</td>
<td>Cogeneration</td>
<td>608 000</td>
<td>10</td>
<td>• The project is at the validation</td>
<td>EcoElectrica (Pty) Ltd Ms Vanessa Gounden Ms Vanessa Gounden Tel: 011 514 0441 Cell: 083 258 3249 Email: <a href="mailto:vanessa.gounden@ecoelectrica.co.za">vanessa.gounden@ecoelectrica.co.za</a></td>
</tr>
<tr>
<td>25 April 2006</td>
<td>0545</td>
<td>Durban Landfill-gas-to-electricity project – Marrianhill and La Mercy Landfills</td>
<td>The project involves the recovery of landfill methane for electricity generation</td>
<td>Methane Recovery and Flaring</td>
<td>69 000</td>
<td>7</td>
<td>• Approved by the DNA</td>
<td>Ethekwini Municipality John Parkin Tel: 031 311 8820 Fax: 031 263 1310 Cell: 083 259 3687 Email: <a href="mailto:JohnPa@dmws.durban.gov.za">JohnPa@dmws.durban.gov.za</a></td>
</tr>
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</tbody>
</table>
| 26 July 2006         | 0752                     | Omnia Fertilizer Ltd Nitrous Oxide Reduction Project | The aim of this project is to reduce emissions of Nitrous Oxide from Nitric Acid Production. | N2O Reduction | 576 000                          | 21              | • Approved by the DNA  
  • The project was registered in May 3, 2007  
  • 26 276 CER's issued for the monitoring period 26 Feb 2008-17 Mar 2008  
  • 157 352 CERs issued for the monitoring period 18 March 2008-8 July 2008  
  • 321 234 CERs issued for the monitoring period 9 July 2008-31 Jan 2009  
  • Issued 151 795 CERs  
  • 167 673 CERs issued for monitoring period 01 Jan 2011-31 Oct 2011  
  • Issued 167 673 CERs for monitoring period 01 Jun 2009 – 31 Oct  
  • Issued 251 685 CERs  
  • 202,332 CERs for monitoring period 01 June 2010-30 Nov 2010  
  • Issued 202 332 CERs  
  • monitoring period 01 Jun-30 Nov 2010  
  • Issued 192 358 CERs  
  • monitoring period 01 Dec 2010-30 Apr 2011  
  • Issued 283 480 CERs  
  • monitoring period 01 May 2011-30 Nov 2011 | Omnia Fertilizer Ltd  
Mr. E. Jack  
Tel: +27 16 970 7238  
Fax: +27 16 976 2650  
Email: ejack@omnia.co.za |
<table>
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<tbody>
<tr>
<td>18 July 2006</td>
<td>0795</td>
<td>Tugela Mill Fuel Switching Project</td>
<td>The project entails fuel from coal to biomass at Tugela pulp and paper mill.</td>
<td>Fuel Switch</td>
<td>70 000</td>
<td>7</td>
<td>Approved by the DNA, The project was registered in February 12, 2007, The construction process for the project started January 2007, 23081 CERs issued for the monitoring period 16 January-28 February 2009, Issued on 21 April 2011</td>
<td>Johan Myburgh Sappi Kraft Ltd Mr. Johan Myburgh Tel: +27 (0)11 407 8123 Cell: +27 (0)83 655 9303 Fax: +2786 673 0867 Email: <a href="mailto:Johan.myburgh@sappi.com">Johan.myburgh@sappi.com</a></td>
</tr>
<tr>
<td>28 Aug 2006</td>
<td>0966</td>
<td>Mondi Richards Bay Biomass Project</td>
<td>The objective of the project activity is to maximize the amount of biomass residues fired in the co-fired boiler, to prevent biomass residues from nearby facilities going to landfill and to prevent biomass residue in plantations from decay.</td>
<td>Fuel Switch</td>
<td>1451 000</td>
<td>10</td>
<td>Approved by the DNA, The project was registered on the 20th May 2007, Approved by the DNA on the 22 November 2011</td>
<td>Hendrick Louw Work: 035 902 2293 Cell: 082 963 5287 Fax: 035 902 2210 Email: <a href="mailto:hendrick.louw@mondigroup.co.za">hendrick.louw@mondigroup.co.za</a></td>
</tr>
<tr>
<td>18 Aug 2006</td>
<td></td>
<td>Mondi Richards Bay Gas Turbine Co-generation Project</td>
<td>The project involves fuel switch from coal and grid electricity to natural gas using an on-site combined cycle gas turbine.</td>
<td>Fuel Switch</td>
<td>131 000</td>
<td>20</td>
<td>Approved by the DNA, At validation stage</td>
<td>Mondi Business Paper Mr. Zephian Alberts Tel: 035 902 2111 Fax: 035 902 2229 Cell: 082 898 5750 Email: <a href="mailto:Zephian.alberts@mondigroup.co.za">Zephian.alberts@mondigroup.co.za</a></td>
</tr>
<tr>
<td>6 Nov 2006</td>
<td>1027</td>
<td>Transalloys Manganese Alloy Smelter Energy Efficiency Project</td>
<td>The project is an industrial energy efficiency project that will reduce the electricity consumption in the production of silicon manganese (SiMn) alloy (a key component in steel making) at the Highveld Steel and Vanadium Corporation Ltd’s Witbank facility.</td>
<td>Energy Efficiency</td>
<td>83 000</td>
<td>10</td>
<td>Approved by the DNA, The project registered in October 19, 2007, 223 073 CER’s issued on 06 Nov 2008 for the monitoring period 1 Oct 2004-31 Mar 2008, 112 292 CERs issued for the monitoring period 1 Apr 2008-30</td>
<td>Transalloys (Pty) Ltd Mr. Jacob Lou Tel: 013 693 8021 Email: <a href="mailto:lou@transalloys.co.za">lou@transalloys.co.za</a></td>
</tr>
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</table>
| 6 Nov 2006            | 0961                      | Sasol Nitrous Oxide Abatement Project | The objective of the project is to reduce the Nitrous Oxide emission from the nitric acid plants of the Sasol Nitro operations at Secunda and Sasolburg. | N₂O Reduction | 610 000 | 10 | - Approved by the DNA  
- The project was registered on 25 May 2007  
- 489, 639 CERs issued for the monitoring period 10 August 2008 to 03 August 2009. | Mr. Louw Johannes  
Sasol Nitro Division  
Tel: 011 344 2156  
Fax: 011 522 4965  
Email: johannes.louw1@sasol.com |
| 20 Nov 2006           | 0925                      | EnviroServ Chloorkop Landfill Gas Recovery Project | The project aims at the recovery and utilization of methane gas from EnviroServ Chloorkop landfill. | Methane Recovery and Flaring | 188 000 | 7 | - Approved by the DNA  
- The project was registered by CDM EB on April 27, 2007  
- Commissioned 19/01/08  
- Operational agreement finalized.  
- 83 135 CERs issued for the monitoring period 19 Jan 2008-31 Dec 2008  
- 100, 239 CERs for the monitoring period 10 January 2009 to 31 December 2009. | EnviroServe Waste Management (Pty) Ltd  
Ms Esmé Gombault  
Tel: 011 519 0200  
Fax: 011 519 0201  
Email: esmeg@enviroserv.co.za |
<p>| 4 Dec 2006            | 1171                      | Project for the catalytic | This project aims at reducing waste | N₂O Reduction | 250 000 | 10 | - Approved by the DNA | African Explosives Ltd. South Africa |</p>
<table>
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<tr>
<td>9 May 2007</td>
<td>1364</td>
<td>N2O abatement project at nitric acid plant No 11 at African Explosives Ltd. (AEL), South Africa</td>
<td>Reduction of N2O emissions with a secondary catalyst inside the ammonia reactor of the No 9 nitric acid plant at African Explosives Ltd (&quot;AEL&quot;), South Africa</td>
<td>N2O Reduction</td>
<td>264 000</td>
<td>10</td>
<td>The project was registered by CDM EB in November 5, 2007</td>
<td>Mr. Lincoln Patridge Tel: 011 606 3287 Fax: 011 606 2426 Email: <a href="mailto:eagarp@ael.co.za">eagarp@ael.co.za</a></td>
</tr>
<tr>
<td>31 July 2007</td>
<td>1665</td>
<td>Kanthym Farm Manure to Energy Project</td>
<td>This project aims at reducing waste gas emissions of nitrous oxide (N₂O) produced during the production of nitric acid (HNO₃).</td>
<td>Renewable Energy</td>
<td>27 000</td>
<td>10</td>
<td>Approved by the DNA The project registered by CDM EB in February 08, 2008. Issued with 332 002 of CERs for the monitoring period 08 February 2008 to 23 May 2009</td>
<td>BioTherm SPV1 (Pty) Ltd Adv. Johan van der Berg Tel: 021 883 3474 Cell: 082 925 5680 Email: <a href="mailto:johannvdb@cdmafrica.com">johannvdb@cdmafrica.com</a></td>
</tr>
<tr>
<td>28 Sep 2007</td>
<td>1921</td>
<td>Humphries Boerdery Piggery Methane Capture and Electricity Generation Project</td>
<td>The project aims at generating electricity from anaerobic digestion of piggery manure at the Humphries Boerdery Farm near Bela-Bela, Limpopo Province</td>
<td>Renewable Energy</td>
<td>11 000</td>
<td>20</td>
<td>Approved by the DNA Pending approval by the CDM EB</td>
<td>Humphries Boerdery (Pty) Ltd Mr Lourens Humphries Cell: +27 82 332 0778 Email: <a href="mailto:humphries@deheus.co.za">humphries@deheus.co.za</a></td>
</tr>
<tr>
<td>18 Sep 2007</td>
<td>1921</td>
<td>Durban Landfill gas to Electricity Project – Bisasar Road Landfill</td>
<td>The project aims at recovery of Landfill methane to electricity generation.</td>
<td>Methane Recovery and Flaring</td>
<td>352 000</td>
<td>20</td>
<td>Approved by the DNA The project has been registered by the CDM EB on the 26 March 09 Issued with 65 711 CREs on the 30th Dec 2011 For the period 26 Mar 2009 – 31 Aug 2009</td>
<td>Ethekwini Municipality Mr John Parkin Tel: 031 311 8820 Cell: 083 293 3687 Email: <a href="mailto:johnp@dmmw.durban.gov.za">johnp@dmmw.durban.gov.za</a></td>
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<tr>
<td>31 March 2008</td>
<td>3677</td>
<td>Ekurhuleni Landfill gas Recovery Project</td>
<td>The project aims to capture landfill gas from landfill sites around Ekurhuleni Metropolitan Municipality and generate electricity</td>
<td>Methane Recovery and Flaring</td>
<td>243 629</td>
<td>20</td>
<td>Approved by the DNA, The project has been registered by the CDM EB on 26 October 2010</td>
<td>Ekurhuleni Metropolitan Municipality Shaazia Bhailall Tel: 011 999 6293 Email: <a href="mailto:shaazia.bhailall@ekurhuleni.gov.za">shaazia.bhailall@ekurhuleni.gov.za</a> <a href="http://www.ekurhuleni.gov.za">www.ekurhuleni.gov.za</a></td>
</tr>
<tr>
<td>26 May 2008</td>
<td>2549</td>
<td>Alton Landfill Gas to Electricity project</td>
<td>The project aims to generate electricity from landfill gas</td>
<td>Methane Recovery and Flaring</td>
<td>70 000</td>
<td>10</td>
<td>Approved by the DNA, The project has been registered by the CDM EB on 24 Aug 09</td>
<td>ENERG Systems uMhlathuze (PTY) LTD Mr. David Cornish Office: 031-564 0222 Cell: 083-385 0661 Email: <a href="mailto:dcornish@gessa.co.za">dcornish@gessa.co.za</a></td>
</tr>
<tr>
<td>07 July 2008</td>
<td></td>
<td>New Energies Commercial Solar Water Heating Programme in South Africa</td>
<td>The project aims at retrofitting of existing electric water heating technologies with solar based water heating technologies and installation of new solar water heating technologies into commercial or large scale users of hot water in hospitals, residential or industrial sectors</td>
<td>Renewable Energy</td>
<td>967 80</td>
<td>10</td>
<td>PDD under review process by the DNA, Outstanding Validation report</td>
<td>Prostart Traders 40 (Pty) Ltd, t/a NewEnergies (Pty) Ltd Mr Neriel Huwirtz Office: 012 362 3311 Cell: +27 83 385 0661 Email: <a href="mailto:nerielh@suntank.com">nerielh@suntank.com</a></td>
</tr>
<tr>
<td>08 July 2008</td>
<td></td>
<td>Karbochem Combined Heat &amp; Power project (Newcastle Cogeneration Project)</td>
<td>The project involves the replacement of coal with Sasol gas as energy source for the steam production.</td>
<td>Cogeneration</td>
<td>322 000</td>
<td>21</td>
<td>PDD under review process by the DNA, Outstanding Validation Report</td>
<td>IPSA Group PLC Mr. Mike Eyre Tel: +44 (0) 20 779 37676 Fax: +44 (0) 20 779 37654</td>
</tr>
<tr>
<td>17 July 2008</td>
<td></td>
<td>Boskor Renewable Electricity Plant (BREP)</td>
<td>The project activity involves to generate electricity from sawmill residues, for sale onto the national grid.</td>
<td>Renewable Energy</td>
<td>14 010</td>
<td>10</td>
<td>PDD under review process by the DNA, Outstanding Validation report</td>
<td>Piet Reynke MTO forestry (Pty) Ltd Tel: +27 21 866 1512 Fax: +27 21 866 1543 Email: <a href="mailto:ppreyneke@silvae.co.za">ppreyneke@silvae.co.za</a></td>
</tr>
<tr>
<td>10 Dec 2008</td>
<td>3398</td>
<td>Fuel Switch project on the Gluten 20 dryer of Tongaat Hulett Starch Pty (Ltd) Germiston mill</td>
<td>The purpose of the project is to reduce greenhouse gas emissions and unpleasant offgas smells in a product dryer by switching fuel from coal to natural gas.</td>
<td>Fuel Switch</td>
<td>8 360</td>
<td>14</td>
<td>PDD approved by the DNA, The project was registered on the 25 December 2010</td>
<td>Tongaat Hulett Starch Property Limited Thabiso Mashamba Tel:011 876 0464 Fax:011 876 0461/086 682 1446 Email: <a href="mailto:thabiso.mashamba@tongaat.com">thabiso.mashamba@tongaat.com</a></td>
</tr>
<tr>
<td>20 April 2009</td>
<td></td>
<td>New England Landfill Gas to Energy Project</td>
<td>The project propose to collect and utilize the landfill gas (LFG) generated at the New England Landfill site.</td>
<td>Methane Recovery and Flaring</td>
<td>53 652</td>
<td>7</td>
<td>Approved by the DNA</td>
<td>Jennifer Orr +27 (0) 11 575 6203 Fax: +27 (0) 11 576 6198 Cell: +27 (0) 78 802 6824</td>
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</table>
| 23 June 2009         |                           | Southern Cape Cleaner Energy Project | The project activity will reduce greenhouse gas (GHG) emissions by supplying clean electricity into the national grid and replacing electricity generated from fossil fuel sources | Renewable Energy | 54 153                      | 10               | Approved by the DNA | Prof Cornish  
Tel: 011 475 3161  
Fax: 011 475 1110  
Cell: 082 443 4030  
Email: margotsaner@imagenet.co.za | |
| 03 Aug 2009          |                           | Omnia Steam Turbine Project | The proposed project activity will generate energy from the wasted pressure release. This will be done by replacing the pressure reducing the valves with a steam turbine which will generate electricity. The technology to be employed involves the installation of a steam turbine with a maximum capacity of 1.92 MW of electricity generation | Industrial Process (Energy Supply) | 14 765                      | 7                | PDD Under review process by the DNA  
Outstanding Validation report | Mr Pieter van der Merwe  
Omnia Fertilizer Limited  
Tel: 016 970 7200  
Cell: 083 252 4852  
Email: pvdmerwe@omnia.co.za | |
| 14 Dec 2009          |                           | BioTherm Hemic Ferrochrome Cogeneration Project | The aim of this project is to flare the poisonous CO rich off gas produced as a by-product of the smelting process, into CO2. A proposed power generation facility will use the off gas as the primary fuel source. The electricity produced will be fed back into Hemic substation, thus reducing electricity supply required by Hemic from the national grid (Eskom). | Industrial Process | 186 189                      | 10               | PDD Under review process by the DNA  
Outstanding validation report | Liebenberg Charles  
BioTherm Energy (Pty) Ltd  
Tel: +27 (0) 11 367 4600  
Cell: +27 (0) 72 954 7116  
Email: cliebenberg@biothermenergy.com | |
| 26 April 2010        |                           | Heat Retention Cooking in South Africa | The aim of this project is to introduce a heat-retention cooker known as Wonder bag. This is an insulated container designed to hold a hot-pot safely for several hours, so that food can be cooked through heat retention. When using the device, cooking is done two stages: First, conventionally on the stove, bringing the food up to temperature and boiling for long enough to ensure that high temperature is achieved throughout. Second, the pot is immediately transferred to the WB where it is | Energy Efficiency | 153 492                      | 7                | Approved by the DNA | Ms. Sarah Collins  
Natural Balance (Pty) Ltd  
Tel: +27 82 340 5583  
Cell: +27 83 5017637  
Email: sarah@naturalbalancesa.com  
Dr. Harvey Adam  
Tel: +44 1865 207019  
Cell: +44 791 739 1156  
Email: adam.harvey@jpmorganclimatecare.com | |
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<tr>
<td>29 April 2010</td>
<td></td>
<td>Lowpal Timbers Wood Waste to Energy Project in Sable, South Africa</td>
<td>thermally insulated and continues to cook. The objective of the project is to generate 2 MW, net electricity, from wood waste at Lowpal Timbers in South Africa. The utilization of the biomass waste to produce electricity, will avoid the generation of methane emissions resulting from anaerobic decomposition.</td>
<td>Renewable Energy</td>
<td>18 889</td>
<td>7</td>
<td>• PDD Under review process by the DNA • Outstanding validation report</td>
<td>Marcel Steinberg EECO Fuels Renewable Energy Company Tel: +27(11) 794 5933 Cell: +27 (83) 282 4247 Fax: +27 (86) 616 1312 Email: <a href="mailto:marcel@eecofuels.com">marcel@eecofuels.com</a></td>
</tr>
<tr>
<td>15 June 2010</td>
<td></td>
<td>The Capture and Utilisation of Methane at the GFI Mining South Africa owned Beatrix Mine in South Africa</td>
<td>The objective of the project is to destruct, flair and then use the underground mine methane and the non-mine methane for electricity generation.</td>
<td>Methane Recovery and Flaring</td>
<td>212 730</td>
<td>7</td>
<td>• PDD approved by the DNA on 24 March 2011. • Project registered by CDM Executive Board on 10 June 2011</td>
<td>Mr. Dirk van Greuning GFI Mining South Africa (Pty) Ltd/ Promethium Carbon (Pty) Ltd Tel: 057 733 8256 Fax: 057 733 8546 Email: <a href="mailto:dirk.vangreuning@goldfields.co.za">dirk.vangreuning@goldfields.co.za</a> Mr. Louw Robbie Tel: 011 706 8185 Fax: 011 706 1510 Email: <a href="mailto:robbie@promethium.co.za">robbie@promethium.co.za</a></td>
</tr>
<tr>
<td>22 June 2010</td>
<td></td>
<td>Sasol Gas Turbine Co-generation at Sasol Secunda Synfuels plant, South Africa</td>
<td>The objective of the project is to substitute some of the electricity imported from Eskom with electricity generated on site at Secunda using natural gas and project fuel</td>
<td>Fuel Switch</td>
<td>1 204 444</td>
<td>10</td>
<td>• PDD Approved by the DNA on 19 Aug 2010</td>
<td>Herman Van der Walt Sasol Synfuels (Pty) Ltd Tel: 011 522 4787 Fax: 011 344 0141 Email: <a href="mailto:Herman.vanderwalt@sasol.com">Herman.vanderwalt@sasol.com</a></td>
</tr>
<tr>
<td>25 Aug 2010</td>
<td></td>
<td>SASSA Low Pressure Solar Water Heater Programme</td>
<td>The objective of the PoA is to install South African Bureau of Standards approved non-pressure storage tank and vacuum tube solar collectors of SASSA to low income households.</td>
<td>Renewable energy</td>
<td>80 188</td>
<td>10</td>
<td>• PDD approved by the DNA on 12 November 2010 • Registered by CDM Executive Board on 12 March 2011</td>
<td>Laura Lahti International Carbon Tel + 27 795423553 (SA) Tel +49 1577 2153701 (GER) Email: <a href="mailto:laura.lahti@intcarbon.com">laura.lahti@intcarbon.com</a></td>
</tr>
<tr>
<td>23 Dec 2010</td>
<td></td>
<td>LED’s Kick-off</td>
<td>The CDM Programme of Activities (CPA) will involve the distribution of</td>
<td>Energy Efficiency</td>
<td>48 702</td>
<td>10</td>
<td>• PDD approved by the DNA</td>
<td>Jurgen Hornman Tel: +31 342760760</td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>PDD Ref Number to UNFCCC</td>
<td>Project Title</td>
<td>Project Description</td>
<td>Project type</td>
<td>tCO2e Annual Emission Reductions</td>
<td>Project Life-span</td>
<td>Project Status</td>
<td>Project Developer /Owner</td>
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<tr>
<td>28 Feb 2011</td>
<td></td>
<td>Cogeneration from Waste Smelter Gas at Richards Bay Minerals in South Africa</td>
<td>The project activity involves the use of waste furnace off-gas to generate electricity and heat for use on site. The proposed project will have electricity generation capacity of 9MW.</td>
<td>Cogeneration</td>
<td>57,018</td>
<td>7 (Renewable twice)</td>
<td>• PDD approved by the DNA on 07 April 2011</td>
<td>Mr Geoff Lagenwall Fax: +31 342 760761 Email: <a href="mailto:j.lommen@lemnislighting.com">j.lommen@lemnislighting.com</a></td>
</tr>
<tr>
<td>29 March 2011</td>
<td>5692</td>
<td>Nelson Mandela Bay Metropolitan’s Landfill Gas Project</td>
<td>The project activity involves the use of waste and landfill gas (LFG) to generate electricity. It will collect the LFG by means of a number of horizontal and vertical extraction wells installed in the sites. The proposed project will have electricity generation capacity of 9MW and will be connected to the national grid. The objective of the Programme of Activities is to install South African Bureau of Standards (SABS) approved non-pressure (also called low pressure) Solar Water Heaters (SWHs) to low income households at minimal cost. The SWHs will replace conventional means of heating up water and hence reduces CO2 emissions.</td>
<td>Methane recovery and flaring/Electricity generation</td>
<td>100 000</td>
<td>10</td>
<td>• PDD approved by the DNA on the 20 June 2011</td>
<td>Mr Jabulani Shabalala EAT Energy (Pty) Ltd Email: <a href="mailto:jabulanis@eefgroup.co.za">jabulanis@eefgroup.co.za</a></td>
</tr>
<tr>
<td>12 May 2011</td>
<td>5997</td>
<td>Standard Bank Low Pressure Solar Water Heater Programme for South Africa</td>
<td>The objective of the Programme of Activities is to install South African Bureau of Standards (SABS) approved non-pressure (also called low pressure) Solar Water Heaters (SWHs) to low income households at minimal cost. The SWHs will replace conventional means of heating up water and hence reduces CO2 emissions.</td>
<td>Energy Efficiency</td>
<td>385 632</td>
<td>10</td>
<td>• PDD approved by the DNA on 21 June 2011</td>
<td>Laura Lahti The Standard Bank of South Africa Limited (coordinating/managing entity) Tel: +27 7954 23553 Email: <a href="mailto:laura.lahti@intlcarbon.com">laura.lahti@intlcarbon.com</a></td>
</tr>
<tr>
<td>11 August 2011</td>
<td></td>
<td>Fuel Switch at Corobrik Driefontein Brick Factory in South Africa</td>
<td>The objective of the project is to implement a fuel switch that entails the conversion of coal to natural gas to an existing clay brick firing tunnel kiln at Driefontein brick factory owned by Corobrik(Pty) Ltd.</td>
<td>Fuel Switch</td>
<td>38 062</td>
<td></td>
<td>• Approved by the DNA</td>
<td>Mr. John Anthony Work: +27 (0)11 871 8759 Cell: +27 83 448 7804 Fax: +27 11 871 8618 Email: <a href="mailto:john.anthony@corobrik.co.za">john.anthony@corobrik.co.za</a></td>
</tr>
<tr>
<td>09 Sept 2011</td>
<td></td>
<td>Joburg Landfill Gas to Energy Project</td>
<td>The project entails the development of landfill gas extraction and utilization</td>
<td>Methane Recovery and Flaring</td>
<td>530 083</td>
<td>20</td>
<td>• Project registered by CDM EB 11 October 2011</td>
<td>David Cornish Work: 031 564 0222</td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>PDD Ref Number to UNFCCC</td>
<td>Project Title</td>
<td>Project Description</td>
<td>Project type</td>
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<td>Project Life-span</td>
<td>Project Status</td>
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<tr>
<td>23 Sept 2011</td>
<td>6669</td>
<td>IFM Integrated Clean Energy Project</td>
<td>Systems at five landfill site within Joburg.</td>
<td>Waste Management/Cogeneration</td>
<td>175 731</td>
<td>30</td>
<td>Approved by the DNA, Project registered by CDM EB on 12 Nov 2012</td>
<td>Jacques Malan, Work: 082 568 6295, Fax: 086 515 0979, Email: <a href="mailto:jmalan@aapcarbon.com">jmalan@aapcarbon.com</a></td>
</tr>
<tr>
<td>11 Oct 2011</td>
<td></td>
<td>Klawer Grid Connected Wind</td>
<td>The project aims to utilize waste furnace offgas as a source of energy to generate clean electricity and contribute to lower greenhouse gas emission by replacing fossil fuel based power from the national grid.</td>
<td>Renewable Energy</td>
<td>81 451.76</td>
<td>25</td>
<td>Project approved by the DNA</td>
<td>Nicolas Rolland, Work: 021 409 7024, Cell: 083 631 0383, Fax: +086 514 1735, Email: <a href="mailto:Nicolas@7energies.com">Nicolas@7energies.com</a></td>
</tr>
<tr>
<td>09 Nov 2011</td>
<td></td>
<td>Grid Connected Wind Power Plant in Witberg, South Africa</td>
<td>The objective of the project is to install a wind power plant with a generating capacity of 30 MW and supply it into SAs national electricity grid.</td>
<td>Renewable Energy</td>
<td>527,482.16</td>
<td>20</td>
<td>Project approved by the DNA</td>
<td>Nicolas Rolland, Work: 021 409 7024, Cell: 083 631 0383, Fax: +086 514 1735, Email: <a href="mailto:Nicolas@7energies.com">Nicolas@7energies.com</a></td>
</tr>
<tr>
<td>16 Nov 2011</td>
<td></td>
<td>Renewable Energy Generation Through Anaerobic Digestion And Biogas-Based Energy Generation in South Africa</td>
<td>The objective of the Programme of Activities is to generate renewable energy through anaerobic digestion and biogas-based energy generation.</td>
<td>Renewable Energy</td>
<td>4 909</td>
<td></td>
<td>PDD approved by the DNA, The PoA was registered on the 22 August 2013</td>
<td>Isabelle Barnard, Work:083 657 8973, Cell: 086 677 1462, Fax: 016 970 8900, E-mail: <a href="mailto:Isabelle.barnard@farmsecure.co.za">Isabelle.barnard@farmsecure.co.za</a></td>
</tr>
<tr>
<td>16 Nov 2011</td>
<td></td>
<td>Springbok Grid Connected 55.5 MW Wind Farm, South Africa</td>
<td>The aim of the proposed project is to construct and operate a wind farm with an installed capacity of up to 55.5 MW and supply electricity generated to the National Grid.</td>
<td>Renewable Energy</td>
<td>1 278 330</td>
<td>20</td>
<td>Pending approval by the DNA</td>
<td>Johannes Coetsee, Tel: 021 934 5278, Fax: 021 935 0506, E-mail: <a href="mailto:johannes@mulilo.com">johannes@mulilo.com</a></td>
</tr>
<tr>
<td>17 Nov 2011</td>
<td></td>
<td>Body Coal and Clamp Kiln Fuel Switch at Allbrick, South Africa</td>
<td>The objective of the proposed project involves implementing a fuel switch from coal to charcoal produced from wood waste in the clamp kilns.</td>
<td>Fuel Switch</td>
<td>5 604</td>
<td></td>
<td>PDD approved by the DNA</td>
<td>Pieter Bredell, Tel: 044 884 0126, Fax: 086 142365, E-mail: <a href="mailto:piet@webafrica.org.za">piet@webafrica.org.za</a></td>
</tr>
<tr>
<td>Date submitted to DNA</td>
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<td>Project Description</td>
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<tr>
<td>18 Nov 2011</td>
<td></td>
<td>De Aar Grid Connected 100.5 MW Wind Farm, South Africa</td>
<td>The objective of the proposed project is to construct and operate a wind farm with installed capacity of about 100.5 MW. The electricity generated will be supplied to South Africa’s National Grid.</td>
<td>Renewable Energy</td>
<td>227 892</td>
<td>20</td>
<td>• Project approved by the DNA</td>
<td>Joost van Lier Work: 082 607 1440 Cell: 071 609 2770 <a href="mailto:Joost.van.lier@blueworldcarbon.com">Joost.van.lier@blueworldcarbon.com</a></td>
</tr>
<tr>
<td>05 Dec 2011</td>
<td></td>
<td>Coega IDZ Windfarm</td>
<td>The proposed project will involve the installation of 25 wind turbines with an installed electricity generation capacity of 73.8 MW. In the Coega Industrial Development Zone (IDZ), near Port Elizabeth in the Eastern Cape province in South Africa.</td>
<td>Renewable Energy</td>
<td>166 498</td>
<td>7</td>
<td>• Project approved by the DNA • Project registered by the CDM EB on 24 Dec 2012</td>
<td>Emil Unger Electrawinds Africa and Indian Ocean Islands +27 82 465 9825 <a href="mailto:emil@megatrade.co.za">emil@megatrade.co.za</a></td>
</tr>
<tr>
<td>15 Dec 2011</td>
<td></td>
<td>Use of waste gas at Namaqua sands in South Africa</td>
<td>The objective of the proposed project is to reduce greenhouse gas emissions by utilizing waste gas from a smelter operation. The waste gas will be fed into engines for the generation of electricity. The project will use cleaned furnace off-gas, which was previously flared, to generate electricity using internal combustion engines.</td>
<td>Waste Management/Cogeneration</td>
<td>83 547</td>
<td>10</td>
<td>• Project approved by the DNA • Project registered by the CDM EB on 18 Dec 2012</td>
<td>Exxaro Resources Limited Mr Thomas Garner Tel:012 307 4034 083 609 1309 <a href="mailto:Thomas.garner@exxaro.com">Thomas.garner@exxaro.com</a></td>
</tr>
<tr>
<td>20 Dec 2011</td>
<td></td>
<td>International Water Purification</td>
<td>The objective of the proposed Programme of Activities (PoA) is to use carbon finance for the introduction of low greenhouse gas emitting water purification systems to provide clean drinking water to low income households. It seeks to further the access of households and communities to clean and safe drinking water by promoting low greenhouse gas emitting water purification technologies</td>
<td>Waste Management</td>
<td>60 000</td>
<td>7</td>
<td>• Project approved by the DNA • Project has been registered by the CDM EB on the 16 Nov 2012</td>
<td>PureWater Christoph Sutter Fax: +41 43 51 35 99 Work: +41 43 501 35 50 <a href="mailto:waterPoA@southpolecarbon.com">waterPoA@southpolecarbon.com</a></td>
</tr>
<tr>
<td>22 Dec 2011</td>
<td>6083</td>
<td>Omnia N2O Abatement Project II</td>
<td>The objective of the proposed project is to reduce N2O emissions in the tail gas by installing a tertiary N2O abatement technology and specialised monitoring equipment that is installed at the tail gas stream after the abatement of N2O emissions.</td>
<td>Nitrous Oxide</td>
<td>339 238</td>
<td>10</td>
<td>• Project approved by the DNA • Registered by CDM Executive Board on 30 April 2012</td>
<td>Omnia Fertilizer, Division of Omnia Group (Pty) Ltd, South Africa Eden Jack Tel: +27 16 970 7200 Cell:+27 83 655 4617 <a href="mailto:ejack@omnia.co.za">ejack@omnia.co.za</a></td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>PDD Ref Number to UNFCCC</td>
<td>Project Title</td>
<td>Project Description</td>
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</tbody>
</table>
| 04 Jan 2012          |                          | ETA Energy Solar Water Heater Programme in South Africa | The objective of the proposed project is to install solar water heaters in residential and commercial areas replacing the fossil fuel based electricity geysers. The project will be located in all provinces of South Africa and the first DM project Activities (CPA) will be in the Eastern Cape Province. | Renewable Energy | 40 000                          | 10               | • Project approved by the DNA  
• Project has been registered by the CDM EB on the 25 July 2013 | Mr. Jabulani Shabalala  
ETA Energy (Pty) Ltd  
Tel: 010 201 4700  
E-mail: jabulanis@cefgroup.co.za |
| 05 Jan 2012          |                          | Prieska Grid Connected 20 MW Solar Park, South Africa | The objective of the project is to supply clean electricity to the grid of the Republic of South Africa. The project envisages the construction and operation of a solar park with installed capacity of up to 20 MW. | Renewable Energy | 38 081                          | 7                | • Project approved by the DNA  
• Project registered by the CDM EB on the 05 Dec 2012 | Mr. Johannes Coetsee  
Tel: +27 021 934 5278  
Fax: +27 021 935 0505  
E-mail: Johannes@mulilo.com |
| 10 Jan 2012          |                          | Southern African Solar Electrical Energy Programme (SASEE PoA) | The objective of the proposed Programme of Activities (PoA) is to promote small scale activities (CPAs) that installs solar photovoltaic electrical systems that utilise incoming solar radiation for production of electrical energy for households and industrial use. | Renewable Energy | 185 491                         | 21               | • Project approved by the DNA  
• Project registered by the CDM EB on the 25 May 2013 | Mr. Sean Buchanan  
South Africa  
Tel: 011 367 0676  
(m) 082 378 2032  
E-mail: Sean.buchanan@ecometrix.co.za |
| 10 Jan 2012          |                          | Southern African Solar Thermal Energy Programme (SASTE PoA) | The objective of the PoA is the promotion of small scale solar Thermal electric photovoltaic technologies that reduces the use of fossil fuels and the associated emissions. | Renewable Energy | 381 729                         | 21               | • Project approved by the DNA  
• Project registered by the CDM EB on the 25 May 2013 | Mr. Sean Buchanan  
Tel: 011 367 0676  
(m) 082 378 2032  
E-mail: Sean.buchanan@ecometrix.co.za |
| 12 Jan 2012          |                          | Cogeneration and /or Trigeneration at Commercial sites | The objective of the proposed project is to install and operate a new 2.136 MWte natural gas based tri-generation unit at an existing site of MTN. The electricity at the tri-generation plant will be generated by two internal combustion engines. | Fuel Switch | 15 284                          | 10               | • Project approved by the DNA  
• PoA registered by the CDM EB on the 31 Dec 2012 | Mr. Pierre Lombard  
Tel: +27 011 912 3000  
(m) +27 83 705 7171  
E-mail: lombar_p@mtn.co.za |
| 02 Feb 2012          |                          | Consteel EE Project at Cape Gate | The proposed project involves the installation of energy efficient Consteel system. The Consteel technology, which was implemented in this project, | Energy Efficiency | 30 066                          | 10               | • Project approved by the DNA | Mr. Geoff Holmes  
Cape Gate Pty Ltd  
Tel: +27 16 960 2342 |
<table>
<thead>
<tr>
<th>Date submitted to DNA</th>
<th>PDD Ref Number to UNFCCC</th>
<th>Project Title</th>
<th>Project Description</th>
<th>Project type</th>
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<th>Project Status</th>
<th>Project Developer /Owner</th>
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<tbody>
<tr>
<td>07 Feb 2012</td>
<td></td>
<td>Silicon Smelters EE Improvement Project</td>
<td>reduces energy consumption of steel production, while also increasing the output capacity of the current furnace without the requirement to install a larger furnace.</td>
<td>Energy Efficiency</td>
<td>227 490</td>
<td>10</td>
<td>• Project approved by the DNA</td>
<td>Mr. Sean Buchanan 4EcoMatrix Africa  Tel: 011 367 0676  Fax: 011 463 1345  (m) 082 378 2032  E-mail: <a href="mailto:Sean.buchanan@ecometrix.co.za">Sean.buchanan@ecometrix.co.za</a></td>
</tr>
<tr>
<td>08 Feb 2012</td>
<td></td>
<td>South African Renewable Energy PoA</td>
<td>The project will reduce greenhouse gases emissions by reducing the use of fossil fuel based electricity consumption by installing more energy efficient cylindrical rotating electric arc furnace.</td>
<td>Renewable Energy</td>
<td>52 287</td>
<td>7</td>
<td>• Project approved by the DNA  • PoA registered by CDM EB on 09 Oct 2012</td>
<td>Mr. Graham Paul  EcoMetrix Africa  Tel: +27 011 463 1009  F: +27 011 463 4513  (m)27 087 152 9191  Email: <a href="mailto:graham.paul@ecometrix.co.za">graham.paul@ecometrix.co.za</a></td>
</tr>
<tr>
<td>09 Feb 2012</td>
<td></td>
<td>Hopefield Wind Energy Facility in South Africa</td>
<td>The objective of the proposed project is to install and operate wind farm with an installed electricity generation capacity of 66.6 MW. The generated electricity will be sold to Eskom in order to diversify the grid generation mix and reduce greenhouse gas emissions.</td>
<td>Renewable Energy</td>
<td>153 608</td>
<td>10</td>
<td>• Project approved by the DNA  • Project registered by CDM EB on 14 Nov 2012</td>
<td>Ms. Helen Tregurtha  Umoya Energy (Pty) Ltd  Tel: +27 021 670 1234  Fax: +27 021 670 1220  Email: <a href="mailto:Helen.tregurtha@umoyaenergy.com">Helen.tregurtha@umoyaenergy.com</a></td>
</tr>
<tr>
<td>09 Feb 2012</td>
<td></td>
<td>Sustainability CFL Replacement PoA in South Africa</td>
<td>The proposed Programme of Activities (PoA) objective is to sustainably maintain the energy efficiency of South Africa’s residential lighting stock by distributing Compact Fluorescent Lamps (CFLs) free of charge to households across South Africa.</td>
<td>Energy Efficiency</td>
<td>53 022</td>
<td>7</td>
<td>• Project approved by the DNA  • Project registered by CDM EB on 19 Dec 2012</td>
<td>Mr. EL Liphoto  Eskom Holdings SOC Ltd  Tel: +27 11 800 6995  (m) +27 72 356 6373  +27 86 556 4656  Email: <a href="mailto:Enoch.Liphoto@eskom.co.za">Enoch.Liphoto@eskom.co.za</a></td>
</tr>
<tr>
<td>09 Feb 2012</td>
<td></td>
<td>North West; Kwa-Zulu Natal and Eastern Cape CFL Replacement Project (2)</td>
<td>The proposed Programme of Activities (PoA) objective is to boost the energy efficiency of South Africa’s residential lighting stock by distributing Compact Fluorescent Lamps (CFLs) free of</td>
<td>Energy Efficiency</td>
<td>53 022</td>
<td>7</td>
<td>• Project has been approved by the DNA  • Project registered by CDM EB on 11 Dec</td>
<td>Mr. EL Liphoto  Eskom Holdings SOC Ltd  Tel: +27 11 800 6995  (m) +27 72 356 6373  +27 86 556 4656</td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>PDD Ref Number to UNFCCC</td>
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</table>
| 13 Feb 2012          |                           | Caledon Wind Farm in South Africa | charge to households across South Africa. The purpose of the project activity is to generate power from wind energy in the Western Cape, South Africa. The electricity will be sold to Eskom, the national electricity utility, in order to increase the reserve margin, diversify the grid generation mix and reduce greenhouse gas emissions. | Renewable Energy | 413,491 | 10 | 2012 | Mr. Dion Wilmans  
Caledon Wind Energy Trading  
Tel:+27 082 321 4191  
Fax:+27 011 468 5972  
Email: dionw@caledonwind.com |
| 15 Feb 2012          |                           | South African Grid Connected Wind Farm PoA | The objective of the proposed programme of Activities (PoA) is to contribute to the development and promotion of renewable energy in the Southern Africa. It seeks to develop a series of grid connected wind power projects that will be supplying clean electricity to the national grid. The first CPA 001 will be located next to Bedford in Eastern Cape Province, South Africa. | Renewable Energy | 23,368 | 7 | Project approved by the DNA  
Project has been registered by the CDM EB on 13 Dec 2012 | Mr. Joost van Lier  
Blueworld Carbon Asset Management (Pty) Ltd  
(m): +27 (0)62 607 1440  
(c): +27 (0) 071 609 2276  
F: +27 (0) 086 609 2276  
Email: joost.van.lier@blueworldcarbon.com |
| 16 Feb 2012          |                           | Gauteng, Free State, Mpumalanga, Limpopo & Northern Cape CFL Replacement Project (1) | The objective of the PoA is to boost the energy efficiency of South Africa’s residential lighting stock by distributing Compact Fluorescent Lamps (CFLs) free of charge to households across South Africa. This will help reduce the national electricity demand and stress on energy infrastructure. | Energy Efficiency | 52,287 | 7 | Project approved by the DNA  
Project has been registered by the CDM EB on the 10 Oct 2012 | Mr. EL Liphoto  
Eskom Holdings  
Tel: +27 11 800 6995  
(m): +27 72 356 6373  
+27 86 556 4656  
Email: Enoch.Liphoto@eskom.co.za |
| 29 Feb 2012          |                           | Standard Bank Energy Efficient Commercial Lighting PoA | The Standard Bank Energy Efficient Co objective of scaling up the installation of commercial buildings (defined as office, African countries. | Energy Efficient | 2,577 | 10 | Project approved by the DNA  
PoA registered by the CDM EB on 05 Aug 2013 | Standard Bank Plc  
Mr. Geoff Sinclair  
20 Gresham Street  
London  
EC2V 7JE  
United Kingdom  
Tel: +44 20 3145 6890  
Fax: +44 3189 6980 |
<table>
<thead>
<tr>
<th>Date submitted to DNA</th>
<th>PDD Ref Number to UNFCCC</th>
<th>Project Title</th>
<th>Project Description</th>
<th>Project type</th>
<th>tCO2e Annual Emission Reductions</th>
<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer /Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 March 2012</td>
<td></td>
<td>De Aar Grid Connected 10 MW Solar Park South Africa</td>
<td>The proposed project envisages the construction and operation of solar park with an output capacity of 10 MW near De Aar in the Northern Cape Province in South Africa. The solar park will be equipped with several arrays of photovoltaic panels.</td>
<td>Renewable Energy</td>
<td>19041</td>
<td>7</td>
<td>• Project approved by the DNA</td>
<td>E-mail: <a href="mailto:Geoff.sinclair@standardbank.com">Geoff.sinclair@standardbank.com</a></td>
</tr>
<tr>
<td>08 March 2012</td>
<td></td>
<td>Indwe Wind Farm (Pty) Ltd</td>
<td>The objective of the proposed project is to construct a grid connected wind energy project in South Africa. It will have installed electricity generation capacity of 57.5 MW. The generated electricity will be sold to Eskom in order to diversify the grid generation mix and reduce greenhouse gas emissions.</td>
<td>Renewable Energy</td>
<td>154833</td>
<td>7</td>
<td>• Project approved by the DNA</td>
<td>DNA Wind (Pty) Ltd</td>
</tr>
<tr>
<td>08 March 2012</td>
<td></td>
<td>Dorper Wind Farm (Pty) Ltd</td>
<td>The objective of the project is to build grid connected wind energy project in South Africa and contribute to the necessary energy expansion needed in the country.</td>
<td>Renewable Energy</td>
<td>290 000</td>
<td>21</td>
<td>• Project approved by the DNA</td>
<td>Mr Doug Jenman</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trigeneration at mobile telephone networks (MTN) 14 Avenue Commercial site</td>
<td>The objective of the project is to reduce the greenhouse gas emissions at MTN’s commercial site through the installation of an on-site, energy efficient, 2.136 MY Trigeneration plant</td>
<td>Energy Efficiency</td>
<td>15 284</td>
<td>10</td>
<td>• Project approved by the DNA</td>
<td></td>
</tr>
<tr>
<td>15 March 2012</td>
<td></td>
<td>Technology Transfer Mechanism – introduction of vertical shaft brick kiln (VSBK) technology</td>
<td>The objective of the project is to replace kiln as the method of firing clay bricks at Vhavenda Brick, with VSBK which will significantly reduce emissions during the firing process and reduce energy consumption and effective use of energy released during the firing process.</td>
<td>Energy Efficiency</td>
<td>25 925</td>
<td>10</td>
<td>• Project approved by the DNA</td>
<td></td>
</tr>
<tr>
<td>15 March 2012</td>
<td></td>
<td>Kathu Grid Connected 100 MW Solar park</td>
<td>The objective of the project is to supply clean electricity to the grid of the</td>
<td>Renewable Energy</td>
<td>190 407</td>
<td>7</td>
<td>• Project approved by the DNA</td>
<td>Renewable Energy Investments of South Africa (Pty) Ltd</td>
</tr>
<tr>
<td>Date submitted</td>
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<tr>
<td>23 March 2012</td>
<td></td>
<td>Small Scale solar electrical programme, South Africa</td>
<td>Republic of South Africa. The project envisages the construction and operation of a solar park with maximum generation capacity of 100 MW.</td>
<td>Renewable Energy</td>
<td>23 368</td>
<td>7</td>
<td>• Project registered by CDM EB on 13 Dec 2012</td>
<td>Mr. Keith Kirby Tel: +27 (0)87 809 3114 Fax: +27 (0) 86 557 2061 <a href="mailto:Keith.kirby@venturesaenergy.com">Keith.kirby@venturesaenergy.com</a></td>
</tr>
<tr>
<td>10 April 2012</td>
<td></td>
<td>CDM Africa wind and solar PoA for South Africa</td>
<td>The objective of the project is to supply clean electricity to the grid of the Republic of South Africa. The first CPA envisages the installation capacity of 0.15 MW.</td>
<td>Renewable Energy</td>
<td>400 000</td>
<td>10</td>
<td>• Project approved by the DNA • Project registered by the CDM EB on 26 Nov 2012</td>
<td>Joost  van Lier Work: +27 082 607 1440 Fax: +27 (0)71 609 2770 (m) +27 071 609 2276</td>
</tr>
<tr>
<td>11 April 2012</td>
<td></td>
<td>Landfill Gas utilization programme of South Africa</td>
<td>The objective of the project is to supply clean electricity to the grid of the Republic of South Africa. The project will consist of the construction and operation of a solar park with maximum generation capacity of 100 MW.</td>
<td>Renewable Energy</td>
<td>80 000</td>
<td>10</td>
<td>• Project approved by the DNA</td>
<td>ENERG SYSTEMS (Pty) Ltd David Cornish Work: 031 564 0222 Cell: 031 564 0661 Fax: +27 056 43802 Email: <a href="mailto:dcornish@gesaa.co.za">dcornish@gesaa.co.za</a></td>
</tr>
<tr>
<td>12 April 2012</td>
<td></td>
<td>Small scale grid connected solar power programme</td>
<td>The objective of the project is to supply clean electricity (generated from solar photovoltaic and solar thermal technologies) to the grid of the Republic of South Africa.</td>
<td>Renewable energy</td>
<td>11 149</td>
<td>28</td>
<td>• Project approved by the DNA • Project registered by the CDM EB 24 Dec 2012</td>
<td>Camco Carbon Africa Limited Mr Arthur Houston +447717326572 <a href="mailto:Project.participant.af@camcoglobal.com">Project.participant.af@camcoglobal.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Waste energy to electricity at ArcelorMittal’s Vanderbijlpark steel</td>
<td>The objective of the project is to construct and operate a new waste energy recovery system which consists of the two new direct reduction kilns. It</td>
<td>Waste Management</td>
<td>252 925</td>
<td>10</td>
<td>• Project approved by the DNA</td>
<td>ArcelorMittal South Africa Limited (AMSA) Mr Alexander Churilov +33 (0) 610454717 <a href="mailto:Alex.churilov@arcelormittal.com">Alex.churilov@arcelormittal.com</a></td>
</tr>
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<td>Date submitted to DNA</td>
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</tbody>
</table>
| 19 April 2012        |                          | Improved Cooking Stoves Programme of Activities in Africa | The objective of the Programme of Activities is to enable the large scale distribution of efficient biomass cook stoves in South Africa. | Energy Efficiency | 13 500 | 10 | • Project approved by the DNA  
• PoA registered by the CDM EB on 06 Dec 2012 | Envirotic Limited  
Mr. Nathan Lorenz |
| 23 April 2012        |                          | Lomati Biomass Power Generation Project in MP | The objective of the proposed project is to construct and operate a new biomass cogeneration independent power plant with a gross generating capacity of 10.1 MWe at Barberton, Mpumalanga, South Africa. | Renewable Energy | 64 712 | 10 | • Project approved by the DNA  
• The PoA has been registered by the CDM EB on 20 Dec 2012 | Lomati Energy (Pty) Ltd  
Mr. Johan Myburgh  
Tel: +27 011 407 8123  
Fax: +27 011 339 6869  
E-mail: Johan.Myburgh@sappi.com |
| 26 April 2012        |                          | Wind and Solar PoA in South Africa | The objective of the proposed programme is to install wind and solar projects into the grid of South Africa. | Renewable Energy | 18 855 | 10 | • PDD approved by the DNA  
• The PoA has been registered by the CDM EB on 26 Dec 2012 | Inca Energy (Pty) Ltd  
Mr. Benoit Garrivier  
Tel: +27 011 684 1179  
Fax: +27 011 684 1076  
E-mail: benoit.garrivier@inca-energy.com |
| 03 May 2012          |                          | Green Power for SA PoA | The objective of the proposed programme of activities is to install wind and solar projects to generate electricity. The generated electricity will be connected to the national grid in order to diversify the grid generation mix and reduce greenhouse gas emissions. | Renewable Energy | 124 756 | 10 | • PDD approved by the DNA  
• Project has been registered by the CDM EB on the 14 Dec 2012 | Standar Ban Plc  
Mr. Geoff Sinclair  
Tel: +44 20 3145 6890  
m: +44 77 6964 6895  
Fax: +44 20 3189 6930  
E-mail: co2@standardbank.com |
| 07 May 2012          |                          | EnBW Kraftwerke Grid-Connected Wind Power Programme in SA | The objective of the proposed programme is to reduce greenhouse gas emissions through the production of electricity from wind. | Renewable Energy | 441 504 | 7 | • PDD approved by the DNA | Mr. Johannes Laubach  
EnBW Kraftwerke AG  
Tel: +49 721 63 23107  
Fax: +49 721 63 23119  
Ti. stein@enbw.com |
<table>
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<td>10 May 2012</td>
<td></td>
<td>South Africa Wind Energy</td>
<td>The objective of the proposed Programme of Activities (PoA) is to construct and operate wind farms in South Africa. It will comprise of a number of CDM Project Activities (CPAs) across the country.</td>
<td>Renewable Energy</td>
<td>93 674</td>
<td>10</td>
<td>• PDD approved by the DNA&lt;br&gt;• Project registered by the CDM EB on 14 Sep 2012</td>
<td>Mr. Alexander Savelkoul&lt;br&gt;Mabanaft Carbon B.V. Tel: +31 (0) 10-290 69 43 (m) +31 (0) 65-494 01 47 Fax: +31 (0) 10-411 07 53 E-mail: <a href="mailto:Alexander.savelkoul@mabanaft.nl">Alexander.savelkoul@mabanaft.nl</a></td>
</tr>
<tr>
<td>15 May 2012</td>
<td></td>
<td>Refrigeration Plant Efficiency PoA</td>
<td>The objective of the proposed Programme of Activities (PoA) is to install technologies that will improve the energy efficiency of refrigeration in commercial buildings.</td>
<td>Energy Efficiency</td>
<td>43 233</td>
<td>7</td>
<td>• PDD approved by the DNA</td>
<td>Mr. Geoff Sinclair&lt;br&gt;Tel: +44 20 3145 6890 (m) +44 77 6964 8665 Fax: +44 20 3189 6930 E-mail: <a href="mailto:co2@standardbank.com">co2@standardbank.com</a></td>
</tr>
<tr>
<td>17 May 2012</td>
<td></td>
<td>Tugela Mill Fuel Switching Project</td>
<td>The proposed project will reduce greenhouse gas emissions by reducing coal consumption due to the increased use of biomass as fuel for on-site thermal energy production.</td>
<td>Fuel Switching</td>
<td>54 143</td>
<td>7</td>
<td>• PDD approved by the DNA</td>
<td>Mr. Colin Maxwell Mowatt&lt;br&gt;Tel: +27 011 507 8355 Fax: +27 0866730911 E-mail: <a href="mailto:Colin.mowatt@sappi.com">Colin.mowatt@sappi.com</a></td>
</tr>
<tr>
<td>21 May 2012</td>
<td></td>
<td>Hot water heating programme for South Africa</td>
<td>The objective of this small scale programme of activities is to install heat pumps and solar water heaters throughout South Africa.</td>
<td>Renewable Energy</td>
<td>11 959</td>
<td>10</td>
<td>• PDD approved by the DNA&lt;br&gt;• Project registered by the CDM EB on the 15 Oct 2012</td>
<td>Mr. Ludwig Steinmann&lt;br&gt;Exxaro Resource Limited (Exxaro) Tel: +27 012 307 4742 (m) +27 083 419 5949 Fax: +27 012 307 3904 E-mail: <a href="mailto:Ludwig.steinmann@exxaro.com">Ludwig.steinmann@exxaro.com</a></td>
</tr>
<tr>
<td>21 May 2012</td>
<td></td>
<td>Market Coke Waste Heat Recovery</td>
<td>Exxaro Resources Limited (Exxaro) plans to construct the Market Coke Plant (the project facility) at their Grootegeul Coal Mine in Limpopo Province of South Africa</td>
<td>Waste Management</td>
<td>450 912</td>
<td>10</td>
<td>• PDD approved by the DNA</td>
<td>Exxaro Resource Limited (Exxaro) Mr. Ludwig Steinmann Tel: +27 012 307 4742 (m) +27 083 419 5949 Fax: +27 012 307 3904 E-mail: <a href="mailto:Ludwig.steinmann@exxaro.com">Ludwig.steinmann@exxaro.com</a></td>
</tr>
<tr>
<td>21 May 2012</td>
<td></td>
<td>Red Cap Kouga Wind Farm</td>
<td>The objective of the project is to use wind power to generate renewable electricity, which will be delivered to the national electricity grid of South Africa.</td>
<td>Renewable Energy</td>
<td>305 220</td>
<td>10</td>
<td>• PDD approved by the DNA&lt;br&gt;• Project registered by the CDM EB on the 10 Oct 2012</td>
<td>Red Cap Kouga Wind Farm (Pty) Ltd Mr. David Nicol Tel: +27 021 790 1392 Fax: +27 021 790 1392 E-mail: <a href="mailto:david@red-cap.co.za">david@red-cap.co.za</a></td>
</tr>
<tr>
<td>25 May 2012</td>
<td></td>
<td>Amakhala Emoyeni</td>
<td>The project envisages the construction</td>
<td>Renewable Energy</td>
<td>369 563</td>
<td>7</td>
<td>• PDD approved by Amakhala Emoyeni RE Project 1</td>
<td>Amakhala Emoyeni RE Project 1</td>
</tr>
<tr>
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<tr>
<td>28 May 2012</td>
<td></td>
<td>Southern African Solar LED Programme</td>
<td>The objective of the Programme of Activities (PoA) is to replace fossil fuel based lighting with solar LED in South Africa.</td>
<td>Renewable Energy</td>
<td>71 520</td>
<td>7</td>
<td>• PDD approved by the DNA</td>
<td>ToughStuff International Mr. Stanley Semelane &amp; Mr Graham Paul Tel: 011 258 8624 <a href="mailto:Stanley.simelane@toughstuffonline.com">Stanley.simelane@toughstuffonline.com</a></td>
</tr>
<tr>
<td>04 June 2012</td>
<td></td>
<td>Dundee Biogas Power</td>
<td>The objective of the proposed project is to generate electricity using animal manure as a feed stock. The proposed biogas digester system will consist of, amongst others, up to six digesters and six gas generator units and will generate approximately 2.22 MW of electricity upon completion.</td>
<td>Renewable Energy</td>
<td>25 467</td>
<td>10</td>
<td>• PDD approved by the DNA</td>
<td>Dundee Biogas Power (Pty) Ltd Mr. Wiehann van Zyl Tel: +27 86 100 4637 Int. Calls: +27 021 886 5790 (m) +27 71 683 1118 F: +27 86 608 8181 E-mail: <a href="mailto:wiehann@solek.co.za">wiehann@solek.co.za</a></td>
</tr>
<tr>
<td>05 June 2012</td>
<td></td>
<td>Cookhouse Wind Farm</td>
<td>The objective of the proposed project is to generate electricity using wind.</td>
<td>Renewable Energy</td>
<td>1 010 419</td>
<td>10</td>
<td>• PDD approved by the DNA</td>
<td>African Clean Energy Developments (ACED) Ms. Mary Waller Tel: +27 021 813 2770 (m) +27 021 934 6958 Fax: +27 021 813 2848 E-mail: <a href="mailto:mary.waller@macquarie.com">mary.waller@macquarie.com</a></td>
</tr>
<tr>
<td>08 June 2012</td>
<td></td>
<td>Neusberg Grid Connected Hydroelectric Power Plant</td>
<td>The objective of the project is to supply clean electricity to the grid of the Republic of South Africa. It envisages the construction and operation of a run-off-river hydroelectricity power plant with installed capacity of 12.57 MW near the town of Kakamas in the Northern Cape Province.</td>
<td>Renewable Energy</td>
<td>66 826</td>
<td>7</td>
<td>• PDD approved by the DNA</td>
<td>Kakamas Hydro Electric Power (Pty) Ltd Mr. Niel Theron Tel: +27 021 934 5268 +27 021 935 0505 E-mail: <a href="mailto:nie@mulilo.com">nie@mulilo.com</a></td>
</tr>
<tr>
<td>11 June 2012</td>
<td></td>
<td>Dassieklip Wind Energy Facility in SA</td>
<td>The objective of the project is to export renewable energy electricity produced to the national grid as the current</td>
<td>Renewable Energy</td>
<td>70 925</td>
<td>10</td>
<td>• PDD approved by the DNA</td>
<td>Kliphuewel-Dassiesfontein Wind Energy Facility (RF)(Pty) BioTherm Energy (Pty) Ltd</td>
</tr>
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<tr>
<td>13 June 2012</td>
<td></td>
<td>Samancor Chrome Middelburg Electricity From Waste Gas</td>
<td>Electricity is mostly generated from coal.</td>
<td>Waste Management</td>
<td>210 138</td>
<td>10</td>
<td>• Project has been registered by the CDM EB on the 23 11 2012</td>
<td>Uri Epstein Tel:+27 011 367 4600 +27 011 367 4601 E-mail: <a href="mailto:urepstein@biothermenergy.com">urepstein@biothermenergy.com</a> Ms. Ciska Terblanche +27 082 898 5750 Fax:0866908482 E-mail: <a href="mailto:Ciska@cdmafrica.com">Ciska@cdmafrica.com</a></td>
</tr>
<tr>
<td>14 June 2012</td>
<td></td>
<td>Karoo Renewable Energy Facility (Nobelsfontein Solar PV)</td>
<td>The objective of the project is to utilize furnace off-gas from the closed ferrochrome furnaces to generate electricity. The electricity will be for captive use by Samancor Chrome and will reduce the demand for Eskom generated electricity.</td>
<td>Renewable Energy</td>
<td>917 785</td>
<td>10</td>
<td>• PDD approved by the DNA • Project registered by CDM EB on 14 Nov 2012</td>
<td>Exxaro On-Site (Pty) Ltd Mr. Johan Posthumus Mr. Brian van Oerle Tel: 013 249 4626 Fax: 013 246 2283 E-mail: <a href="mailto:johan@pranaenergy.com">johan@pranaenergy.com</a> <a href="mailto:brian@pranaenergy.com">brian@pranaenergy.com</a></td>
</tr>
<tr>
<td>14 June 2012</td>
<td></td>
<td>Olifantsrivier Wind</td>
<td>The objective of the proposed project activity is to supply renewable energy, generated from wind resources to the South African national grid, thereby displacing the greenhouse gas intensive electricity of the grid.</td>
<td>Renewable Energy</td>
<td>719 604</td>
<td>10</td>
<td>• PDD approved by the DNA</td>
<td>South African Renewable Green Energy Facility (Pty) Ltd Mr. Francois Roux Tel:+27 021 794 3140 (m) +27 076 435 4241 Fax: +27 021 794 3135 E-mail: <a href="mailto:francois@sarge.co.za">francois@sarge.co.za</a></td>
</tr>
<tr>
<td>14 June 2012</td>
<td></td>
<td>Karoo Renewable Energy Facility (Nobelsfontein Wind Project)</td>
<td>The objective of the proposed project activity is to supply renewable energy, generated from solar resources to the South African national grid, thereby displacing the greenhouse gas intensive electricity of the grid.</td>
<td>Renewable Energy</td>
<td>917 785</td>
<td>10</td>
<td>• PDD approved by the DNA • Project has been registered by the CDM EB on the 14 11 2012</td>
<td>South African Renewable Green Energy Facility (Pty) Ltd Mr. Francois Roux Tel:+27 021 794 3140 (m) +27 076 435 4241 Fax: +27 021 794 3135 E-mail: <a href="mailto:francois@sarge.co.za">francois@sarge.co.za</a></td>
</tr>
<tr>
<td>19 June 2012</td>
<td></td>
<td>West Coast 1 Wind Farm in SA</td>
<td>The proposed project activity is an initiative to export renewable electricity</td>
<td>Renewable Energy</td>
<td>280 754</td>
<td>10</td>
<td>• PDD approved by the DNA</td>
<td>Moyeng Energy (Pty) Ltd together with Macawber 862 (Pty) Ltd</td>
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<tr>
<td>19 June 2012</td>
<td></td>
<td>Grid Connected Wind Power Plant in NMB, South Africa</td>
<td>Produced by the West Coast 1 Wind Farm to the national grid, which is currently mostly derived from coal.</td>
<td>Renewable Energy</td>
<td>72 000</td>
<td>7</td>
<td>DNA</td>
<td>Sanjith Mungaroo Tel: +27 011 209 9225 Fax: +27 011 209 9229 E-mail: <a href="mailto:sanjith.mungaroo@iprplc-gdfsuez-meta.com">sanjith.mungaroo@iprplc-gdfsuez-meta.com</a></td>
</tr>
<tr>
<td>25 June 2012</td>
<td></td>
<td>Vertical Shaft Brick Kiln (VS BK) Programme of Activities for South Africa</td>
<td>The objective of the project is to reduce greenhouse gas emissions through producing electricity from wind which is a renewable resource.</td>
<td>Energy Efficient</td>
<td>100 000</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>MetroWind (Pty) Ltd Fernlea Building Tel: +27 041 505 8000 +27 041 585 3437 E-mail: <a href="mailto:donald@africoast.com">donald@africoast.com</a></td>
</tr>
<tr>
<td>04 July 2012</td>
<td></td>
<td>Bokpoort CPS (Concentrating Solar Power) Project, South Africa.</td>
<td>The objective of the project is to reduce greenhouse gas emissions by installing a Greenfield connected parabolic trough concentrated solar thermal power plant.</td>
<td>Energy Efficient</td>
<td>211 533</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>Solafrica Thermal Energy (Pty) Ltd Mr. Nasi Rwigema Work: 011 266 4074 Cell: 083 324 2097 Fax: 086 648 1006 Email: <a href="mailto:nasi@solafrica.co.za">nasi@solafrica.co.za</a></td>
</tr>
<tr>
<td>06 July 2012</td>
<td></td>
<td>CarbonSoft Open Source Poa, LED lighting distribution: Pan Africa</td>
<td>The aim of the PoA is to replace kerosene lamps used by South Africans with low cost, robust, purpose-designed solar LED lamps.</td>
<td>Energy Efficient</td>
<td>50 079</td>
<td>7</td>
<td>PDD approved by the DNA</td>
<td>Moon Tree Trading (Pty) Ltd Mr. Willem Maartens De Wet Work: 011 743 1035 Cell: 072 214 9850 Fax: 011 86 675 0374 Email: <a href="mailto:wrdewet@lantic.net">wrdewet@lantic.net</a></td>
</tr>
<tr>
<td>12 July 2012</td>
<td></td>
<td>SA Calcium Carbide Furnace Waste Gas to Electricity CDM Project</td>
<td>The objective of the project is to generate electricity using furnace waste gas.</td>
<td>Waste Management</td>
<td>40 686</td>
<td>28</td>
<td>PDD approved by the DNA</td>
<td>SA Calcium Carbide (Pty) Ltd 1. Juan Sabio (General Manager) 2. Lindsay Strachan (Project Manager) Work: 034 370 1172 Cell: 083 626 6301</td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>PDD Ref Number to UNFCCC</td>
<td>Project Title</td>
<td>Project Description</td>
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</tr>
</tbody>
</table>
| 12 July 2012        |                          | Residential Hot Water Efficiency Programme in South Africa. | The objective of the PoA is to install solar water heaters and heat pumps at residential facilities throughout SA. | Renewable Energy | 60 226 | 10 | • PDD approved by the DNA  
• PoA registered by the CDM Executive Board on 31 Dec 2012 | Thekwini Municipality  
Derek Morgan  
Work: 031 311 1139  
Fax: 031 311 1089  
Email: morgand@durban.gov.za |
| 12 July 2012        |                          | Samancor Chrome Witbank | The objective of the project is to utilise furnace off-gas from the closed ferrochrome furnaces to generate electricity | Waste Management | 157 1666 | 10 | • PDD approved by the DNA  
• Project registered by CDM EB on 12 Dec 2012 | Exxaro On-Site (Pty) Ltd  
1. Johan Posthumus  
2. Brian Oerle  
Tel: 011 463 9718  
Fax: 086 524 1467  
Email: johan@praenergy.com  
Email: brian@pranaenergy.com |
| 19 July 2012        |                          | Rheboksfontein Wind Energy Facility | The objective of the project activity is to generate electricity of the capacity of 105 MW, using wind power resources and deliver it to South African’s national grid. | Renewable Energy | 327 982 | 10 | • PDD approved by the DNA  
• Project registered by CDM EB on 13 Dec 2012 | Moyeng Energy (Pty) Ltd (Private Entity)  
• Micawber 895 (Pty) Ltd  
Sanjith Mungroo  
Work: 0 11 209 9225  
Fax: 011  209  9229  
Email: sanjith.mungroo@iprplc-gdfsuez-meta.com |
| 25 July 2012        |                          | Capture and Combustion of Methane in Coal Mines. | The objective of the proposed PoA is to reduce greenhouse gas emissions through capturing and flaring of mine methane. | Methane recovery and flaring | 180 000 | 3x7 | • PDD approved by the DNA | Tshipise Energy (Pty) Ltd  
John Sparrow  
Work: 011 575 7472  
Cell: 082 820 9834  
Fax: 011 576 7472  
John.sparrow@coalofafrica.co.za |
| 31 July 2012        |                          | NuPlanet Small Scale Hydropower PoA | The purpose of the project is to support the development of hydropower projects that will supply renewable electricity into the grid. | Renewable Energy | 17 266 | 10 | • PDD approved by the DNA  
• Project registered by the CDM EB on 21 Dec 2012 | NuPlanet Project Development (Pty) Ltd  
Anton-Louis Olivier  
Work: 012 349 2944  
Cell: 082 938 0682  
Fax: 27 (0) 12 349 2944  
Email: ali@nuplanet.co.za |
<table>
<thead>
<tr>
<th>Date submitted to DNA</th>
<th>PDD Ref Number to UNFCCC</th>
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<th>Project Description</th>
<th>Project Type</th>
<th>tCO2e Annual Emission Reductions</th>
<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer/Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 August 2012</td>
<td></td>
<td>Energy Efficient Cook stoves in South Africa</td>
<td>The objective of the PoA is to reduce greenhouse gas emission into the atmosphere, by replacing the current usage of conventional cook stoves in the households with biomass Improved Cooking Stoves.</td>
<td>Energy Efficient</td>
<td>34 381</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>Clean Air Renewable Energy (Pty) Ltd Mr. Allen Ricki Cell: 082 442 4812 Fax: 086 683 0830 Email: <a href="mailto:ricki@cdmcare.co.za">ricki@cdmcare.co.za</a></td>
</tr>
<tr>
<td>02 August 2012</td>
<td></td>
<td>South Africa Renewable Energy Programme(SA-REP)</td>
<td>The purpose of the PoA is to support the development and implementation of small scale grid connected renewable energy project in SA.</td>
<td>Renewable Energy</td>
<td>25 521</td>
<td>7 (Renewable Thrice)</td>
<td>Project registered by the CDM EB on 12 Dec 2012</td>
<td>Standard Bank Plc Fenella Aouane Work: +44 20 3145 6890 Cell: +44 7824434777 Email: <a href="mailto:Fenella.Aouane@standardbank.co.uk">Fenella.Aouane@standardbank.co.uk</a></td>
</tr>
<tr>
<td>02 August 2012</td>
<td></td>
<td>Capture, Destruction and Utilisation of Mine Methane at the Beatrix West Shaft in South Africa</td>
<td>The objective of the proposed project activity is to reduce greenhouse gas emission through the capture, destruction and utilization of mine methane from the West shaft of the Beatrix Gold Mine.</td>
<td>Methane recovery and flaring</td>
<td>161 642</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>GFI Mining South Africa (Pty) Ltd Mr. Dirk van Greuning Work: 057 733 8526 Fax: 057 733 8545 Email: <a href="mailto:dirk.vangreuning@goldfields.co.za">dirk.vangreuning@goldfields.co.za</a></td>
</tr>
<tr>
<td>02 August 2012</td>
<td></td>
<td>Installation of energy efficient ventilation fans</td>
<td>The goal of the Programme of Activities is to reduce greenhouse gas emissions through the installation of energy efficiency ventilation fans at sites across South Africa.</td>
<td>Energy Efficiency</td>
<td>58 512</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>The Carbon Protocol of South Africa(CME) Ms. Hildegard Niehaus Tel: 072 348 1505 Fax: 011 295 2268 Email: <a href="mailto:info@carbonprotocol.org">info@carbonprotocol.org</a></td>
</tr>
<tr>
<td>02 August 2012</td>
<td></td>
<td>Solar Energy Programme for South Africa</td>
<td>The goal of the PoA is to develop Solar PV (Photovoltaic) facilities that will supply renewable electricity into the South African national grid.</td>
<td>Renewable Energy</td>
<td>226 440</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>The Carbon Protocol of South Africa (CME) Ms. Hildegard Niehaus Tel: 072 348 1505 Fax: 011 295 2268 Email: <a href="mailto:info@carbonprotocol.org">info@carbonprotocol.org</a></td>
</tr>
<tr>
<td>02 August 2012</td>
<td></td>
<td>Grid Connected Photovoltaic (PV) Renewable Electricity</td>
<td>The goal of the PoA is to develop grid connected Concentrated Solar Power</td>
<td>Renewable Energy</td>
<td>20 365</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>The Carbon Protocol of South Africa (CME)</td>
</tr>
<tr>
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<td>Project Description</td>
<td>Project type</td>
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</tr>
<tr>
<td>02 August 2012</td>
<td>2012-0001</td>
<td>Generating Facilities PoA.</td>
<td>(CSP) and Photovoltaic (PV) power generating facilities in South Africa. The electricity will be supplied into the South African national electricity grid.</td>
<td>02 August 2012</td>
<td>Ms. Hildegard Niehaus</td>
<td>Tel: 072 348 1505</td>
<td>Fax: 011 295 2268</td>
<td>Email: <a href="mailto:info@carbonprotocol.org">info@carbonprotocol.org</a></td>
</tr>
<tr>
<td>02 August 2012</td>
<td>2012-0002</td>
<td>Compressed Air Energy Efficiency PoA</td>
<td>The purpose of the PoA is to reduce green house gas emissions through the implementation of energy efficiency measures in the compressed air system</td>
<td>Energy Efficiency</td>
<td>13 416</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>The Carbon Protocol of South Africa (CME) Ms. Hildegard Niehaus Tel: 072 348 1505 Fax: 011 295 2268 Email: <a href="mailto:info@carbonprotocol.org">info@carbonprotocol.org</a></td>
</tr>
<tr>
<td>02 August 2012</td>
<td>2012-0003</td>
<td>Compressed Air Energy Efficiency at Harmony Gold Mining Company</td>
<td>The objective of the proposed project activity is to reduce green house gas emissions through the implementation of energy efficiency measures in the compressed air system at the Harmony Gold Mining Company.</td>
<td>Energy Efficiency</td>
<td>49 974</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>Harmony Gold Mining Company Limited Mr. Louis Botha Work: 011 696 7267 Cell: 084 586 0169 Fax: 011 411 2143 Email: <a href="mailto:Louis.botha@harmony.co.za">Louis.botha@harmony.co.za</a></td>
</tr>
<tr>
<td>03 August 2012</td>
<td>2012-0004</td>
<td>South African Wind Power Projects.</td>
<td>The goal of the project is to promote the installation of grid connected wind energy generation facilities across South Africa.</td>
<td>Renewable energy</td>
<td>104 321</td>
<td></td>
<td>PDD approved by the DNA</td>
<td>The Carbon Protocol of South Africa (CME) Ms. Hildegard Niehaus Tel: 072 348 1505 Fax: 011 295 2268 Email: <a href="mailto:info@carbonprotocol.org">info@carbonprotocol.org</a></td>
</tr>
<tr>
<td>17 August 2012</td>
<td>2012-0005</td>
<td>Installation of energy efficient ventilation fans at the KDC East Gold Mine in South Africa.</td>
<td>The purpose of the PoA is to reduce green house gas emissions through the implementation of energy efficiency ventilation project in underground mining operations.</td>
<td>Energy Efficient</td>
<td>48 117</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>Nedbank Ltd Kevin Whitfield Work: 011 294 2266 Cell:082 961 56 46 Fax:011 295 2266 Email: <a href="mailto:kevinwh@nedbankcapital.co.za">kevinwh@nedbankcapital.co.za</a> GFI Mining South Africa (Pty) Ltd Jan du Plessis Work:011 562 9935 Cell: 083 448 3737 Fax: 011 562 9967 Email: <a href="mailto:jan.duplessis@goldfields.co.za">jan.duplessis@goldfields.co.za</a></td>
</tr>
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<td>Date submitted to DNA</td>
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</tbody>
</table>
| 17 August 2012       |                           | Installation of energy efficient ventilation fans at the KDC West Gold Mine in South Africa | The purpose of the PoA is to reduce green house gas emissions through the implementation of energy efficiency ventilation project in underground mining operations.                                                | Energy Efficient | 48 117                       | 10                | • PDD approved by the DNA                                                                 | Nedbank Ltd  
Kevin Whitfield  
Work: 011 294 2268  
Cell: 082 901 58 46  
Fax: 011 295 2268  
Email: kevinwh@nedbankcapital.co.za  
GFI Mining South Africa (Pty) Ltd  
Jan du Plessis  
Work: 011 562 9935  
Cell: 083 448 3737  
Fax: 011 562 9967  
Email: jan.duplessis@goldfields.co.za |
| 17 August 2012       |                           | Installation of energy efficient ventilation fans at South Deep and Beatrix Gold Mines in South Africa. | The purpose of the PoA is to reduce green house gas emissions through the implementation of energy efficiency ventilation project in underground mining operations.                                                | Energy Efficient | 30 795                       | 10                | • PDD approved by the DNA  
• Project registered by the CDM EB on the 26 July 2013                        | Nedbank Ltd  
Kevin Whitfield  
Work: 011 294 2268  
Cell: 082 901 58 46  
Fax: 011 295 2268  
Email: kevinwh@nedbankcapital.co.za  
GFI Mining South Africa (Pty) Ltd  
Jan du Plessis  
Work: 011 562 9935  
Cell: 083 448 3737  
Fax: 011 562 9967  
Email: jan.duplessis@goldfields.co.za |
| 27 August 2012       |                           | City of Cape Town Landfill Gas Extraction And Utilization Programme of Activities (PoA). | The objective of the PoA is to capture and combust landfill gas (LFG) to generate electricity and heat at solid waste disposal sites (landfills) in the municipality of Cape Town, South Africa. | Methane Recovery and Flaring | 817 732                       | 7                 | • PDD approved by the DNA  
• Project registered by the CDM EB on the 16 Sep 2014                          | City of Cape Town  
Barry Coetzee  
Work: 021 400 2992  
Cell: 083 232 2661  
Fax: 086 576 0260  
Email: Barry.Coetzee@capetown.gov.za |
| 30 August 2012       |                           | Renewable Energy Carbon Programme for Africa (RECPA) – PoA                     | The purpose of the programme is to support the development and implementation of small-scale renewable energy projects in South Africa in order to displace grid-connected, fossil fuel based electricity generation, thereby reducing carbon emissions. | Renewable Energy | 24 228                       | 7 (renewable)     | • PDD approved by the DNA  
• PoA registered by the CDM EB on the 28 Dec 2013                               | Carbon Africa (CME for the Program of Activities)  
Mr. Adriaan Tas  
Work:+254 731 851 754  
Cell:+254 726 385 657  
Email: adriaan@carbonafrica.co.ke |
<table>
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<tr>
<th>Date submitted to DNA</th>
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<th>Project Title</th>
<th>Project Description</th>
<th>Project type</th>
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<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer / Owner</th>
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</table>
| 3 Sept 2012          |                          | South African Large Scale Grid Connected Solar Park Programme | The programme seeks to develop a series of grid connected solar power projects that supply clean electricity to either the national grid of the RSA or an identified consumer via RSA’s grid. | Renewable Energy | 67 941 | 7 | • PDD approved by the DNA | Blue World Carbon Asset Management (Pty) Lt  
Joost van Lier  
Work: +27 82 807 1440  
Cell: +27 71 609 2276  
Fax: +27 86 609 2770  
Email: Joost.van.lier@blueworldcarbon.com |
| 4 Sept 2012          |                          | Improved Cook Stoves for East Africa (ICSEA) | The objective is to disseminate fuel-efficient stoves throughout East and Southern Africa (Uganda, Kenya, United Republic of Tanzania, Rwanda, Burundi, Kingdom of Lesotho and South Africa). Reducing the fuel consumption in comparison to traditional cooking technologies. | Energy Efficiency | 48 647 | 7x2 | • PDD approved by the DNA  
• Project registered by the CDM EB | Improved Cook Stoves for East Africa (ICSEA), Limited  
Bill Farmer  
Work: +256 414 200988  
Cell: +256 (0) 752644611  
Fax: +256 414 200988  
Email: billfarmer@ugandacarbon.org |
| 5 Sept 2012          |                          | Distributed Energy Generation’s Waste Heat to Power Project at XAWO | The proposed project activity is an initiative to recover waste heat from waste gas from six existing semi-closed type ferrochrome furnaces at Xawo and will reduce demand for electricity | Waste Management | 247 064 | 10 | • PDD approved by the DNA  
• Project registered by the CDM EB on the 27 Dec 12 | Distributed Energy Generation (Pty) Ltd  
Nico Smith  
Tel: +27 83 261 3316  
Fax: +27 86 723 7162  
Email: nico@degpl.com |
| 6 Sept 2012          |                          | TWE Golden Valley Wind Power Project | The purpose of the TWE Golden Valley Wind Power Project is the construction of a 147.6 MW wind power plant in the Eastern Cape Province of South Africa. | Renewable Energy | 481 997 | 7 | • PDD approved by the DNA  
• Project registered by the CDM EB on 03 Jan 13 | Environmental Intermediaries & Trading Group Limited  
Uri Epstein  
Work: +27 11 3674600  
Fax: +27 11 367 4601  
Email: info@biothermenergy.com  
upstein@biothermenergy.com |
<p>| 7 Sept 2012          |                          | The purpose of the PoA is to support the development and implementation of | | Renewable Energy | 24 226 | 7 | • PDD approved by the DNA | Carbon Africa (CME for the Program of Activities) |</p>
<table>
<thead>
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<th>Project Status</th>
<th>Project Developer /Owner</th>
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</thead>
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<tr>
<td>12 Sept 2012</td>
<td></td>
<td>Manufacture and utilization of bio-coal briquettes in Stutterheim, South Africa</td>
<td>The objective of the proposed activity is to establish and operate a manufacturing plant in Stutterheim which will produce Bio Coal in the form of briquettes and pallets.</td>
<td>Waste management</td>
<td>133 599</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>Bio-Coal Manufacturers and Distributors (Pty) Ltd (BCMD) Mr. Avinash Sarda Work: +27 43 781 1987 Cell: +27 79 475 2345 Fax: +27 85 150 3539 Email: <a href="mailto:agro_technologies@yahoo.co.in">agro_technologies@yahoo.co.in</a></td>
</tr>
<tr>
<td>17 Sept 2012</td>
<td></td>
<td>PoA: Biomass residues power generation programme</td>
<td>The Biomass residues power generation Programme aims to promote and support the implementation, replacement or retrofit of power-and-heat plants, utilizing biomass residues as primary fuel.</td>
<td>Renewable Energy</td>
<td>267 255</td>
<td></td>
<td>PDD approved by the DNA</td>
<td>Standard Bank Plc Geoff Sinclair Work: +44 20 3145 6890 Cell: +44 7769 648 695 Fax: +44 20 3189 6930 Email: <a href="mailto:co2@standardbank.com">co2@standardbank.com</a></td>
</tr>
<tr>
<td>21 Sept 2012</td>
<td></td>
<td>CDM Africa Small Scale Hydro PoA for Southern Africa</td>
<td>The programme of activities (hereafter referred to as “the PoA”) is an initiative for the implementation of small scale hydro projects generating electricity into the respective national grids across Southern Africa</td>
<td>Renewable Energy</td>
<td>30 000</td>
<td>28</td>
<td>PDD approved by the DNA</td>
<td>(i) PoA Africa Hydro (Pty) Ltd, (ii) CDM Africa Climate Solutions (Pty) Ltd Ms Marilize Stoltz Work: 011 214 0660 Cell: 082 7463364 (both) Email: <a href="mailto:marilize@cdmafrica.com">marilize@cdmafrica.com</a></td>
</tr>
<tr>
<td>26 Sept 2012</td>
<td></td>
<td>Hernic’s Electricity Generation from Waste Gas Project</td>
<td>The aim of the project activity is to utilize furnace off-gas from the closed ferrochrome furnaces to generate electricity.</td>
<td>Waste management</td>
<td>168 953</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>Hernic Ferrochrome (Pty) Ltd. Kenichiro Tauchi Tel: +27 12 381 1100 Fax: +27 12 381 1111 Email: <a href="mailto:ken@hernic.co.za">ken@hernic.co.za</a></td>
</tr>
<tr>
<td>28 Sept 2012</td>
<td></td>
<td>The objective of the project activity is to utilise the invasive biomass for the</td>
<td></td>
<td>Renewable Energy</td>
<td>22 562</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>Nollen Group. Mr.Charles Kennedy Cox</td>
</tr>
<tr>
<td>Date submitted to DNA</td>
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</table>
| 01 Oct 2012           |                           | Southern African Fuel Switch                                                  | The objective of this programme is to reduce the use of fossil fuels in thermal energy production equipment and thus to reduce the CO2 emissions associated with the use of the thermal energy generation equipment in industrial and cogeneration processes.          | Fuel Switch  | 27 388                          |                   |                                                                                 | Impala Platinum Pty Ltd (Pty) Ltd 1. Nicolene De Bruin - Impala Platinum (Pty) Ltd 2. Sean Buchanan - Ecometrix (Consultant)  
Work: +27(0)14 569 7043  
Cell: +27(0)82 566 7395  
Email: Nicolene.deBruin@implats.co.za  
Ecometrix Work: +2711 463 1009  
Fax: + 27(0)14 569 7056 |
| 08 Oct 2012           |                           | Biomass Energy Generation through Gasification or Direct Combustion in South Africa | The Programme of Activities will involve renewable energy projects in South Africa, where energy will be derived from renewable biomass through gasification or direct combustion. It will ensure that all potential renewable energy projects from renewable biomass will be able to qualify under the CDM process of the Kyoto. | Renewable Energy | 62 512                          | 21                 |                                                                                 | Farmsecure Carbon (Pty) Ltd  
Ms. Isabelle Barnard  
P O Box 1033  
Vanderbijlpark  
1900  
Tel:+27 16 970 8901  
(m) +27 83 657 8973  
(f) +27 27 86 677 1462  
E-mail: +27 86 677 1462 |
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<th>Project Status</th>
<th>Project Developer /Owner</th>
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</thead>
<tbody>
<tr>
<td>12 Nov 2012</td>
<td></td>
<td>For Stoves Programme of Activities</td>
<td>evaporation process from primary steam from the boilers to waste heat vapours.</td>
<td>Energy Efficiency</td>
<td>62 623</td>
<td>10</td>
<td>PDD approved by the DNA</td>
<td>Nicola Steen Cirencester, Gloucestershire, UK, GL7 2AA Tel: +44 7881 952983 (m) +44 7881 952983 E-mail: <a href="mailto:Nicola@nicolasteen.com">Nicola@nicolasteen.com</a></td>
</tr>
<tr>
<td>05 Sep 2013</td>
<td></td>
<td>City of Cape Town Treatment of Organic Waste Streams CDM Projects</td>
<td>The goal of the proposed Programme of Activities (PoA) is to utilize the financial mechanism such as carbon finance so that the efficient cook stoves are accessible to the communities. The stated goal of the PoA is to make energy efficient cook stoves available to households that use firewood/charcoal produced from woody biomass for cooking.</td>
<td>Waste Management</td>
<td>57 067</td>
<td>7</td>
<td>PDD approved by the DNA</td>
<td>Mr Barry Coetzee +27 (0)21 400 2992 +27 (0)21 400 4846 <a href="mailto:Barry.Coetzee@capetown.gov.za">Barry.Coetzee@capetown.gov.za</a></td>
</tr>
<tr>
<td>05 Sep 2013</td>
<td></td>
<td>Eastern Cape Renewable Energy for Household Project</td>
<td>The objective of the project is to replace non-renewable fuel for cooking with solutions based on efficient and renewable solutions. It will replace the use of wood and charcoal for cooking, with locally and sustainably produced ethanol as cooking fuel.</td>
<td>Renewable Energy</td>
<td>150 000</td>
<td>7</td>
<td>PDD under review process by the DNA</td>
<td>Green Development AS Clinton Long Work: 011 4476881 Cell: 0711830305 <a href="mailto:Clinton@potentialenergy.co.za">Clinton@potentialenergy.co.za</a></td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>Project Title</td>
<td>Project Description</td>
<td>Project Type</td>
<td>tCO2e Annual Emission Reductions</td>
<td>Project Life-span</td>
<td>Project Status</td>
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<tr>
<td>18 October 2004</td>
<td>Kouga Wind farm/ Pumped Storage Hydro</td>
<td>This project aims at generating electricity from wind and dammed water and supplying it to the area.</td>
<td>Renewable Energy</td>
<td>26 000</td>
<td>21</td>
<td>• Project Idea approved by DNA</td>
<td>Genesis Eco Energy Pty Ltd</td>
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<td></td>
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<td>Email: <a href="mailto:es.energy@mweb.co.za">es.energy@mweb.co.za</a></td>
<td></td>
</tr>
<tr>
<td>28 January 2005</td>
<td>Sasol Limited Natural gas conversion project</td>
<td>The project entails the using natural gas as a supplement to replace the use of coal as a feedstock at two Sasol plants in South Africa and this result in reducing emissions per unit of the output.</td>
<td>Fuel Switch</td>
<td>6 490 000</td>
<td>10</td>
<td>• Project Idea approved by DNA</td>
<td>Dr M.W Rose</td>
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<td>Gerrit Kornelius</td>
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<td>Email: <a href="mailto:Gerrit.kornelius@sasol.com">Gerrit.kornelius@sasol.com</a></td>
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<tr>
<td>30 August 2005</td>
<td>Meyerton Bio-Diesel Project</td>
<td>The project involves the production of bio-diesel from waste vegetable oils.</td>
<td>Bio-fuel Production</td>
<td>90 000</td>
<td>10</td>
<td>• Project Idea approved by DNA</td>
<td>Exclusive Access Trading (Pty) Ltd</td>
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<td>Email : <a href="mailto:amend@icon.co.za">amend@icon.co.za</a></td>
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<tr>
<td>23 September 2005</td>
<td>Mafikeng Bio-Diesel</td>
<td>The project involves the production of bio-diesel from waste vegetable oils.</td>
<td>Bio-fuel Production</td>
<td>327 000</td>
<td>30</td>
<td>• Project Idea approved by DNA</td>
<td>Mafikeng Bio-diesel</td>
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<td></td>
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<td>Mr Chappy</td>
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<td>Email: <a href="mailto:chappy@inw.org.za">chappy@inw.org.za</a></td>
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<tr>
<td>19 January 2006</td>
<td>Chrome Smelter Fuel Switch Project</td>
<td>This project entails the production of electricity for on-site usage from the smelter off-gases.</td>
<td>Cogeneration</td>
<td>600 000</td>
<td>20</td>
<td>• Project Idea approved by DNA</td>
<td>Envigas (Pty) Ltd</td>
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<td>Email: <a href="mailto:pan@sangiro.co.za">pan@sangiro.co.za</a></td>
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<tr>
<td>19 January 2006</td>
<td>Alrode-Biodiesel</td>
<td>The project involves the production of bio-diesel from soya and palm oils.</td>
<td>Bio-fuel Production</td>
<td>189 000</td>
<td>21</td>
<td>• Project Idea approved by DNA</td>
<td>Exclusive Access Trading (Pty) Ltd</td>
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<td>Email : <a href="mailto:amend@icon.co.za">amend@icon.co.za</a></td>
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<tr>
<td>28 March 2006</td>
<td>Concentrated Solar Thermal Electricity Generation Project</td>
<td>The project involves generation of grid electricity from concentrated</td>
<td>Renewable Energy</td>
<td>375 000</td>
<td>35</td>
<td>• Project Idea approved by DNA</td>
<td>Eskom Holdings Ltd</td>
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<td>Ms Wendy Poulton</td>
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<td>Date submitted to DNA</td>
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<td>Project Description</td>
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<td>28 March 2006</td>
<td>Coal Plant Precipitators Energy Efficiency Project</td>
<td>The project involves the efficient use of electricity at the Eskom’s Matimba power station.</td>
<td>Energy Efficiency</td>
<td>12 000</td>
<td>32</td>
<td>• Still undertaking the technology assessment study in collaboration with World Bank.</td>
<td>011 800 2634 Email: <a href="mailto:wendy.Poulton@eskom.co.za">wendy.Poulton@eskom.co.za</a></td>
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<td>• Project Idea approved by DNA</td>
<td>Eskom Holdings Ltd Ms Wendy Poulton 011 800 2634 Email: <a href="mailto:wendy.Poulton@eskom.co.za">wendy.Poulton@eskom.co.za</a></td>
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<td>• They are still evaluating and prioritizing the precipitators.</td>
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<tr>
<td>28 March 28, 2006</td>
<td>Gariep Hydroelectric Upgrade Project</td>
<td>The project aims to increase the generation capacity of the Gariep hydroelectric power station.</td>
<td>Energy Efficiency</td>
<td>77 000</td>
<td>30</td>
<td>• Project Idea approved by DNA</td>
<td>Eskom Holdings Ltd Ms Wendy Poulton Tel: 011 800 2634 Email: <a href="mailto:wendy.Poulton@eskom.co.za">wendy.Poulton@eskom.co.za</a></td>
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<td>• The project is on hold because of financial constraints.</td>
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<tr>
<td>08 June 2006</td>
<td>Vanadium Iron Smelter Energy Efficiency Project</td>
<td>The project aims to reduce energy consumption used during the production process at Witbank facility.</td>
<td>Energy Efficiency</td>
<td>36 000</td>
<td>10</td>
<td>• Project Idea approved by DNA</td>
<td>Highveld Steel &amp; Vanadium Corporation Ltd Mr. Kobus Sutherland Tel: 013 690 8571 Fax: 013 690 9804 Cell: 084 561 6042 Email: <a href="mailto:kobuss@hiveld.co.za">kobuss@hiveld.co.za</a></td>
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<tr>
<td>22 June 2006</td>
<td>Siyanda Bio-diesel</td>
<td>The project aims to install and operate a bio-diesel production plant consisting of soya oil extraction plant and refinery facility.</td>
<td>Bio-fuel Production</td>
<td>275 000</td>
<td>7</td>
<td>• Project Idea approved by DNA</td>
<td>Siyanda Biodiesel (Pty) Ltd Mr. Desmond Padiaichey Tel: 011 445 2451/1 Cell: 084 5562026 Fax: 011 445 2452 Email: <a href="mailto:dkpadiaichey@telkomsa.nt">dkpadiaichey@telkomsa.nt</a></td>
<td></td>
</tr>
<tr>
<td>20 July 2006</td>
<td>Tshwane-Lilandaa Methane Gas Project</td>
<td>The purpose of the project is to generate electricity based on methane recovered from 9 landfill sites around Pretoria.</td>
<td>Methane Recovery and Flaring</td>
<td>803 000</td>
<td>10</td>
<td>• Project Idea approved by DNA</td>
<td>Lilanda Holdings (Pty) Ltd and City of Tshwane Metropolitan Municipality Mr Wiseman Cell: 083 512 8360 Email: <a href="mailto:wiseman.khumalo@ghreductions.co.za">wiseman.khumalo@ghreductions.co.za</a> Mandla: 082 512 8360 Email: <a href="mailto:mandla@lilandaa.co.za">mandla@lilandaa.co.za</a></td>
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</table>
| 28 August 2006       | NCP Coal to Gas Fuel Switching Project | The project is a fuel switch from coal to methane gas at the NCP manufacturing facility. | Fuel Switch | 50 000 | 10 | • Project Idea approved by DNA  
• PDD at final stage of preparations  
• The project is progressing very well. | NCP Alcohols (Pty) Ltd.  
Mr. Carl Freyer  
Tel: 031 560 1111  
Cell: 082 462 1544  
www.ncpalcohols.com  
Email: carlf@ncpalcohols.com |
| 20 September 2006    | Letaba Biomass Fuel Switching Project | The aim of the project is to replace coal with biomass to generate steam. | Fuel Switch | 19 000 | 10 | • Project Idea approved by DNA  
• PDD at final stage of preparations  
• Temporarily withdrawn from the database. | BioTherm SPV 2 (Pty) Ltd.  
Mr. Johan van den Berg  
Tel: 011 233 7911  
Fax: 011 233 7801  
Cell: 082 925 5680  
www.biothermenergy.com  
Email: webmaster@cdmafrica.com |
| 25 September 2006    | NOPI – National Organic Produce Initiative | The project aims to introduce hemp biomass, lime and wood as construction media and energy efficiency methods for low cost housing. | Fuel Switch | 50 000 | 10 | • Project Idea approved by DNA | International Consortium of Future Energies  
Mr. Thiery  
Tel: 011 887 0800  
Fax: 011 887 8833  
Cell: 084 832 8810  
Email: damboki108@yahoo.com |
| 15 December 2006     | SCAW Fuel Switch Project | The project aims to switch from coal to natural gas. | Fuel Switch | 130 000 | 10 | • Project Idea approved by DNA | SCAW Metals (Pty) Ltd  
Mr. Deirdre Lingenfelder  
011 842 9582 (W)  
011 842 9719 (F)  
Email: deirdre@scaw.co.za |
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<th>Date submitted to DNA</th>
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<th>Project Description</th>
<th>Project Type</th>
<th>tCO2e Annual Emission Reductions</th>
<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer /Owner</th>
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</thead>
</table>
| 21 December 2006     | Mittal Steel Waste Heat to Energy Project | The project aims to capture waste heat presently not being utilized to generate electricity. | Cogeneration | 200 000 | 10 | • Project Idea approved by DNA | Mittal Steel  
Mr. Dennis Britz  
016 889 2046(W)  
083 272 5839(M)  
016 889 3025 (F)  
Email: dennisbritz@arcelormittal.com  
www.mittalsteel.co.za |
| 19 January 2007      | Samancor Chrome Electricity from Furnace Offgas Project | The purpose of the project is to generate electricity from waste energy. | Cogeneration | 184 000 | 21 | • Project Idea approved by DNA | Samancor  
Ms Lourens Erasmus  
Tel: 011 245 1000  
Fax: 011 245 1290  
Email: lourens.erasmus@samanco.com |
| 16 March 2007        | Molten Slag and Metal Project | It is an energy-efficiency project at the Metalloys, Samancor Meyerton Works. | Energy Efficiency | 200 000 | 21 | • Project Idea approved by DNA  
• PDD at final stage of preparations | Molten Slag and Metal (Pty) Ltd  
Mr. Anton Mecchi  
Tel: 086 866 8236  
Cell: 082 923 9536  
Email: mecchi@yebo.co.za |
| 20 February 2007     | Orange-Fish River Small Hydro Power Project | The project involves generation of hydro-electric power | Renewable Energy | 60 000 | 21 | • Project Idea approved by DNA | Clackson Power Company (Pty) Ltd  
Mr. Eric Clack  
Tel: 013 755 3838  
Fax: 013 753 2621  
Cell: 082 890 8418  
Email: derrick@clacksonpower.com |
| 04 May 2007          | Biomass Based Combined Heat and Power Plant | The project proposes a refurbishment of the existing turbines by switching the heating systems from heat to steam thereby improving the plant’s energy efficiency and producing power. | Energy Efficiency | 21 000 | 15 | • Project Idea approved by DNA  
• Project temporary withdrawn from the database. | MrPiet Reyneke  
Private Bag X5024  
Stellenbosch 7599  
Office: +27 21 866 1225  
Fax: +27 21 866 1243  
Cell: +27 82 909 2956  
Email: preyneke@silvae.co.za |
| 17 May 2007          | Saldanha Bay Clean Fuel Switch Project | The project aims to replace old mothballed coal-fired power station | Fuel Switch | 20 170 000 | 40 | • Project Idea approved by DNA | Prof Francois Cornish  
P O Box 3672 |
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<th>Project Description</th>
<th>Project Type</th>
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<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer /Owner</th>
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<tr>
<td>08 June 2007</td>
<td>Production of electricity from combustion of bagasse, Kwazulu – Natal</td>
<td>with a 2028MW gas fired station to generate electricity.</td>
<td>Cogeneration</td>
<td>90 000</td>
<td>10</td>
<td>• Project Idea approved by DNA</td>
<td>Somerset West 7130 Office: +27 31 856 1344 Cell: +27 82 533 6321 Email: <a href="mailto:prof@fcglobaltech.com">prof@fcglobaltech.com</a></td>
</tr>
<tr>
<td>08 June 2007</td>
<td>Production of Ethanol from Sugarcane, Kwazulu – Natal</td>
<td>The project aims to install a new biomass residue fired power generation plant at a site where currently no power generation occurs</td>
<td>Bio-fuel Production</td>
<td>77 000</td>
<td>7</td>
<td>• Project Idea approved by DNA</td>
<td>African Biofuels Company (Pty) Ltd Ms Fergal Casey Office: 031-569-3611 Fax: 031-569-5535 Cell: 084-403-9925 Email: <a href="mailto:fergal@tricorp.co.za">fergal@tricorp.co.za</a></td>
</tr>
<tr>
<td>25 May 2007</td>
<td>Compact Fluorescent Lighting (CFL) in Sol Plaatje Municipality</td>
<td>The objective is to reduce household expenditure on energy, alleviate demand on the critically over-loaded national energy grid and to reduce the emission of greenhouse gases associated with generating energy from the national grid.</td>
<td>Energy Efficiency</td>
<td>7 000</td>
<td>21</td>
<td>• Project Idea approved by DNA</td>
<td>The PACE Centre Mr. James Clayton Office: 031-569-3611 Work/Cell: 083 650 7181 Email: <a href="mailto:pace@carbon.org.za">pace@carbon.org.za</a></td>
</tr>
<tr>
<td>19 September 2007</td>
<td>New Denmark Colliery Methane Destruction Project</td>
<td>The project proposes destruction of methane from New Denmark Colliery mine by flaring.</td>
<td>Methane Recovery and Flaring</td>
<td>27 000</td>
<td>20</td>
<td>• Project idea approved by DNA</td>
<td>Anglo coal Mr. Johan Janse van Rensburg Office: 017 610 4141 Tel.: 017 479 0000 Email: <a href="mailto:jjvrensburg@anglocoa.co.za">jjvrensburg@anglocoa.co.za</a></td>
</tr>
<tr>
<td>28 September 2007</td>
<td>100MW West Coast Wind Farm</td>
<td>The project proposes generation of Renewable Energy from wind</td>
<td>Renewable Energy</td>
<td>278 000</td>
<td>21</td>
<td>• Project Idea approved by DNA</td>
<td>Eskom Holdings Ltd Ms Mandy Rambharos</td>
</tr>
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<td>Date submitted to DNA</td>
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| 29 November 2007      | Sasol Secunda 2nd stage Rectisol off-gas Methane Reduction project            | The project proposes the reduction of methane by sending the off-gas to a gas turbine to generate electricity. | Methane Recovery and Flaring                 | 1 600 000                        | 10                | Project idea approved by the DNA                                                | Tel: +27 11 800 6300  
Cell: +27 83 234 1859  
Email: mandy.rambharos@eskom.co.za  
Sasol Synfuels Secunda  
Mnr. H.J van der Walt  
Tel: +27 11 344 0141  
Cell: +27 83 630 0426  
Email: herman.vanderwalt@sasol.com |
| 30 November 2007      | The Lion Phase 1 and Phase 2 Ferrochrome Smelter Surplus Furnace Gas Electricity Generation Project | The project proposes generating electricity using surplus furnace gas to displace a certain amount of fossil fuel used for electricity generation in South Africa. | Cogeneration                                 | 142 960                          | 21                | Project idea approved by the DNA                                                | IST Holdings (Pty) Ltd trading as PowerTech IST  
Chris Nell  
Tel: +27 12 426 7517  
Fax: +27 12 426 7320  
Email: francis@ist.co.za |
| 30 November 2007      | The Boshoek Ferrochrome Smelter Surplus Furnace Gas Electricity Generation Project | The project proposes generating electricity using surplus furnace gas to displace a certain amount of fossil fuel used for electricity generation in South Africa. | Cogeneration                                 | 84 000                           | 21                | Project idea approved by the DNA                                                | IST Holdings (Pty) Ltd trading as PowerTech IST  
Chris Nell  
Tel: +27 12 426 7517  
Fax: +27 12 426 7320  
Email: francis@ist.co.za |
| 30 November 2007      | The Lydenburg Ferrochrome Smelter Surplus Furnace Gas Electricity Generation Project | The project proposes generating electricity using surplus furnace gas to displace a certain amount of fossil fuel used for electricity generation in South Africa. | Cogeneration                                 | 71 480                           | 21                | Project idea approved by the DNA                                                | SC Van Sittert  
Tel: +27 14 590 6000  
Cell: +27 82 808 9640  
Email: svsittert@xstrata.co.za |
| 14 December 2007      | The use of slag as a partial raw material substitute in the clinker           | The project propose the reduction of Carbon Dioxide emissions from Industrial Process | Industrial Process                           | 142 000                          | 20                | Project idea approved by DNA                                                    | Pretoria Portland Cement (Pty) Ltd  
Egmont Ottermann |
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<th>Date submitted to DNA</th>
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<th>tCO2e Annual Emission Reductions</th>
<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer /Owner</th>
</tr>
</thead>
</table>
| 24 January 2008      | Assmang waste gas utilization at Machadodorp and Cato Ridge | The production of cement clinker through the use of non-carbonated materials as substitute raw materials and through fuel savings associated with the use of non-carbonated substitute raw materials. The project proposes to utilise of the furnace off-gas from the ferrochrome and ferromanganese plants and generate electricity. | Cogeneration | 200 000 | 21 | - The projects have been delayed by regulatory problems in Waste management and R&D required for some of the project. | Tel: 011 386 9114  
Cell: 082 650 7237  
Email: egmont.oftermann@ppc.co.za  
Joint venture between promethium carbon (Pty) Ltd and Exxaro coal (Pty) Ltd  
Robbie Louw  
Cell: 082 557 8646  
Email: robbie@promethium.co.za  
Johan Posthumus  
Cell: 082 466 2452 |
| 07 February 2008     | South Africa GeoPower (Pty) Ltd – SAGP_1 | The project proposes to field 700Mwe of grid connected geoThermal electricity generation within South Africa. | Renewable Energy | 416 000 | 30 | - Project idea approved by the DNA | Dr. George W. Oprisko  
Mr Pierre Botha  
Mr Johann Van Tonder  
Work: +264 6525 1153  
Cell: +264 81354 5236  
Joint venture between promethium carbon (pty) Ltd and Exxaro coal (Pty) Ltd  
Robbie Louw  
Cell: 082 557 8646  
Email: robbie@promethium.co.za  
Johan Posthumus  
Cell: 082 466 2452 |
| 14 February 2008     | Namakwa sands waste gas utilisation | The project propose utilisation of furnace off-gas from the Namakwa sands plant to generate electricity | Cogeneration | 150 000 | 7-15 | - Project idea approved by the DNA | Joint venture between promethium carbon (pty) Ltd and Exxaro coal (Pty) Ltd  
Robbie Louw  
Cell: 082 557 8646  
Email: robbie@promethium.co.za  
Johan Posthumus  
Cell: 082 466 2452 |
| 15 February 2008     | KZN sands furnace off gas utilization | The project propose utilisation of furnace off-gas from the ferrochrome plants and generate electricity | Cogeneration | 380 000 | 21 | - Project idea approved by the DNA | Joint venture between promethium carbon (pty) Ltd and Exxaro coal (pty) Ltd  
Robbie Louw  
Cell: 082 557 8646  
Email: robbie@promethium.co.za  
Johan Posthumus  
Cell: 082 466 2452 |
| 15 February 2008     | Generation of electricity from the Exxaro char plant off-gas and Exxaro coke furnace off-gas | The project propose utilisation of furnace off-gas from the Exxaro char plant and market coke plant to generate electricity | Cogeneration | 140 000 | 21 | - Project idea approved by the DNA | Joint venture between promethium carbon (pty) Ltd and Exxaro coal (pty) Ltd  
Robbie Louw  
Cell: 082 557 8646  
Email: robbie@promethium.co.za |
<table>
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<tr>
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<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer /Owner</th>
</tr>
</thead>
</table>
| 29 February 2008      | Red Signal    | The project propose to achieve National control, by means of advanced existing technology, over 5 Gigawatt of National energy demand | Energy Efficiency | 20 000 000              | 5               | Project idea approved by the DNA, The project is delayed because they are still negotiating with a multinational high electrical demand and energy usage company. | Johan Posthumus  
Cell: 082 466 2452 |
| 08 April 2008         | The Bulbul drive landfill gas electricity generation project | The project will involve the active extraction of landfill gas (approximately 1000m³/hr and comprising 40-60% methane) through the installation of the system of gas extraction wells, and associated pipe works, into the landfill side’s waste body. | Waste Management | 752 000              | 10              | Project idea approved by the DNA | Ben Forrer / Kevin Hellon  
Tel: 021 880 0040  
Fax: 021 880 0419  
Cell: 076 549 6597  
Email: ben@quadafrica.co.za |
| 17 April 2008         | IFM Integrated Clean Energy Project | The project proposes to utilize waste furnace offgas as a source of energy to generate Clean Electricity and contribute to lower greenhouse gas emissions by replacing fossil fuel based power from the national grid. | Cogeneration | 127 000              | 30              | Project idea approved by the DNA | Jacques Malan (Chief Technology Officer)  
AAP Carbon Limited  
Cell: 082 568 6285  
Fax: 086 515 0979  
Email: jacquesmalan@aapcarbon.com |
| 21 April 2008         | ArcelorMittal steel SA, variable speed drive energy management system | The project proposes to reduce energy consumption at the hot strip mill at ArcelorMittal Saldanha steel. | Energy Efficiency | 16 500              | 10              | Project idea in review process by the DNA | Mr. Dennis Britz  
Tel: 016 889 2046  
Cell: 083 272 5839  
Email: dennis.britz@arcelormittal.com |
| 21 April 2008         | Arcelor Mittal steel SA, waste pressure recovery project | The project objective is to capture pressure which is currently destroyed or reduced across a pressure control valve at blast furnaces. | Cogeneration | 94 000              | 10              | Project idea in review process by the DNA | Mr. Dennis Britz  
Tel: 016 889 2046  
Cell: 083 272 5839  
Email: dennis.britz@arcelormittal.com |
<p>| 24 April 2008         | Green Waste to Energy Project | The objective of the project is to | Cogeneration | 25 600              | 10              | Project idea approved | Chris Meyer |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>25 April 2008</td>
<td>Green Energy Plant (Biomass from wood waste and forest residue)</td>
<td>The project entails the installation of a dedicated biomass fuelled green power facility using high pressure superheated steam and a turbine driven generator to generate 6 Mwe.</td>
<td>Cogeneration</td>
<td>258 379</td>
<td></td>
<td>by the DNA</td>
<td>Mr Andrew Stranding Email: <a href="mailto:a.standring@aes-africa.com">a.standring@aes-africa.com</a></td>
</tr>
<tr>
<td>27 May 2008</td>
<td>PFG Glass (Pty) Ltd</td>
<td>The project objective is to retro-fit the SP3 glass manufacture assembly line at PFG’s spring’s plant in order to facilitate a complete fuel switch from Heavy Fuel Oil/natural gas mixture to natural gas.</td>
<td>Fuel Switch</td>
<td>150 000</td>
<td>10</td>
<td>Project idea approved by the DNA</td>
<td>Mr Bob Allan Tel: 011 360 1118 Cell: 082 808 1420 Fax: 011 360 1326 Email: <a href="mailto:balan@pfg.co.za">balan@pfg.co.za</a></td>
</tr>
<tr>
<td>30 May 2008</td>
<td>CDM Solar Cooker Project Sinthumele, South Africa</td>
<td>The project idea is to use solar energy for cooking.</td>
<td>Renewable Energy</td>
<td>50 500</td>
<td>14</td>
<td>Project idea approved by the DNA</td>
<td>Falko Doerman Tel: +49 (0) 232 443 97988 Cell: +49(0) 163 253 1879 Email: <a href="mailto:falko2c@falko2c.com">falko2c@falko2c.com</a></td>
</tr>
<tr>
<td>03 June 2008</td>
<td>Reduction of CO2-e emissions from combustion through partial substitution of fossil fuels with alternative fuels or less carbon intensive fuels in cement manufacture</td>
<td>The project aims to reduce CO2 emissions from the production of cement clinker through the partial substitution of fossil fuels with alternative fuels or less carbon intensive fuels in cement manufacture</td>
<td>Renewable Energy</td>
<td>25 000</td>
<td>10</td>
<td>Project idea approved by the DNA</td>
<td>Pretoria Portland Cement (Pty) Ltd Egmont Ottermann Tel: 011 386 9114 Cell: 082 650 7237 Email: <a href="mailto:egmont.ottermann@ppc.co.za">egmont.ottermann@ppc.co.za</a></td>
</tr>
<tr>
<td>18 June 2008</td>
<td>NEEA retrofitting of incandescent bulb with high performance LED bulbs</td>
<td>The project proposes to displace CO2 emissions from grid supplied by thermal power using a demand side retrofit energy efficiency technology.</td>
<td>Energy Efficiency</td>
<td>16 095</td>
<td>10</td>
<td>Project idea approved by the DNA</td>
<td>FireFly Carbon Mr Arshad Bhat Tel: +44-(0)1507-354953 Cell:+44-(0)79805237 Email: <a href="mailto:ab@fireflycarbon.com">ab@fireflycarbon.com</a></td>
</tr>
<tr>
<td>19 June 2008</td>
<td>Industrial Bio Coal Project</td>
<td>The project proposes to convert organic waste into Bio Coal which will be used as, a direct</td>
<td>Waste Management</td>
<td>212 100</td>
<td>7</td>
<td>Project idea approved by the DNA</td>
<td>Avinash Sadra Tel: 043 781 1987 Cell: 079 475 2345</td>
</tr>
<tr>
<td>Date submitted to DNA</td>
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<tr>
<td>08 July 2008</td>
<td>Rea-Vaya Bus Rapid Transit (BRT) project.</td>
<td>The project proposes to establish a sustainable mass urban transport system that is efficient, safe, rapid, convenient, and comfortable and effective based on a Bus Rapid Transit (BRT) system to ensure high ridership levels.</td>
<td>Transport</td>
<td>370 148</td>
<td>21</td>
<td>• Project idea approved by the DNA</td>
<td>Mrs Linda Phalatse Tel: 011 407 6265 Cell: 083 944 0998 Fax: 011 403 4142 Email: <a href="mailto:lindap@joburg.org.za">lindap@joburg.org.za</a></td>
</tr>
<tr>
<td>08 July 2008</td>
<td>Cosmo City Solar Water Heater Project, Johannesburg</td>
<td>The project proposes to install high efficiency solar water heaters at the low-income households in Cosmo City to reduce related greenhouse gas emissions fossil fuel use and electricity consumption per household.</td>
<td>Renewable Energy</td>
<td>56 641</td>
<td>21</td>
<td>• Project idea approved by the DNA</td>
<td>Mrs Linda Phalatse Tel: 011 407 6265 Cell: 083 944 0998 Fax: 011 403 4142 Email: <a href="mailto:lindap@joburg.org.za">lindap@joburg.org.za</a></td>
</tr>
<tr>
<td>14 August 2008</td>
<td>TSB Sugar RSA Komati Mill Cogeneration Project</td>
<td>The project objective is to use bagasse to generate electricity for export from TSB Sugar mill in the Komatiport area.</td>
<td>Renewable Energy</td>
<td>50 329</td>
<td>10</td>
<td>• Project idea approved by the DNA</td>
<td>Mr. Jan Coetsee Tel: 013 791 1003 Cell: 082 568 1584 Fax: 086 619 7998 Email: <a href="mailto:coetseej@tsb.co.za">coetseej@tsb.co.za</a></td>
</tr>
<tr>
<td>21 August 2008</td>
<td>St Albans Prison Methane Capturing and Electricity Generation Project</td>
<td>The project objective is to avoid wastewater gas emission by flaring and as a result generating steam and electricity from a renewable fuel source at a domestic waste water treatment plant at St Albans Prison</td>
<td>Waste Management</td>
<td>59</td>
<td>7</td>
<td>• Project idea approved by the DNA</td>
<td>Mr Pieter Neilson Tel: 041 392 4206 Cell: 079 866 8555 Fax: 041 392 4262 Email: <a href="mailto:hjunius@mandelametro.gov.za">hjunius@mandelametro.gov.za</a></td>
</tr>
<tr>
<td>27 August 2008</td>
<td>Thos Begbie Project</td>
<td>The purpose of the project is to</td>
<td>Fuel switch</td>
<td>173 356</td>
<td>Crediting</td>
<td>• Project idea approved</td>
<td>Mr Gert Van Zyl</td>
</tr>
<tr>
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<tr>
<td>09 September  2008</td>
<td>The Buffalo City Landfill Gas to Electricity Clean Development Mechanism project</td>
<td>generate 21,408MW of electrical power using Sasol’s pipeline gas as fuel to replace a similar quantity of power that would otherwise have been imported from the national grid or generated using coal as the fuel. The objective of the project is to extract the biogas produced by three Buffalo City Municipality owned landfill sites and use it to generate electricity.</td>
<td>140 000</td>
<td>10</td>
<td>by the DNA</td>
<td>Tel: 011 205 9400 Fax: 011 205 9440 Email: <a href="mailto:gertl@laprojects.co.za">gertl@laprojects.co.za</a></td>
<td></td>
</tr>
<tr>
<td>11 September  2008</td>
<td>The Absa Towers West Energy Centre project</td>
<td>The objective of the project is to build an energy centre equipped with 17,3 MW gas fired CHP generators to generate electricity and heat for the ABSA campus. The objective of the project is to utilize biogas produced by livestock waste in commercial dairy and pig farms in KwaZulu Natal province, Limpopo province, Gauteng province and the Eastern Cape Province in South Africa to replace the need for grid based power imported for the farms.</td>
<td>12 000</td>
<td>10</td>
<td>Project Idea approved by the DNA The project is complete and operating</td>
<td>Mr Ken Gafnet Tel: 011 608 5000 Fax:011 608 3333 Email: <a href="mailto:keng@sde.co.za">keng@sde.co.za</a></td>
<td></td>
</tr>
<tr>
<td>30 September  2008</td>
<td>Trade plus aid commercial and domestic biogas programme</td>
<td>The project objective is to utilise waste furnace offgas as a source of energy to generate clean electricity and contribute to lower greenhouse gas emissions by replacing fossil fuel based power from the national grid. The objective of the project is to capture fugitive methane to generate electricity to substitute coal fired generating capacity.</td>
<td>176 000</td>
<td>7</td>
<td>Project Idea approved by the DNA The project is delayed by the long period for a Record of Decision.</td>
<td>Mr Matthew Hayden Tel: +27 82 223 6260 Cell:+27 82 223 6260 Fax: +27 11 483 0074 Email: <a href="mailto:matthew@tradeplusaidafrica.co.za">matthew@tradeplusaidafrica.co.za</a></td>
<td></td>
</tr>
<tr>
<td>21 October  2008</td>
<td>TATA Steel KZN Integrated Clean Energy Project</td>
<td></td>
<td>96 000</td>
<td>10</td>
<td>Project Idea approved by the DNA</td>
<td>Mr Jacques Malan Tel:011 684 2797 Cell:082 568 6295 Email: <a href="mailto:jacquesmalan@aapcarbon.com">jacquesmalan@aapcarbon.com</a></td>
<td></td>
</tr>
<tr>
<td>31 October  2008</td>
<td>Highland Exploration and Production(Pty) Ltd Mine Methane utilization for Power Generation Project</td>
<td></td>
<td>180 000</td>
<td>21</td>
<td>Project Idea approved by the DNA</td>
<td>Mr Peter D Price Tel:011 616 7219 Cell:083 628 9190 Fax:011 616 7219</td>
<td></td>
</tr>
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<tr>
<td>05 November 2008</td>
<td>Retrofit Kinetic Energy Recovery System</td>
<td>The objective of the project is to save fuel and emissions in transportation fleets, particularly in mini-bus taxi, and primarily as a retrofit to existing vehicles thereby extending their useful life and avoiding the carbon associated with the manufacture of new vehicles.</td>
<td>Transport</td>
<td>402 000</td>
<td>7</td>
<td>• Project idea approved by the DNA</td>
<td>Email: <a href="mailto:pdpoon@icon.co.za">pdpoon@icon.co.za</a></td>
</tr>
<tr>
<td>21 November 2008</td>
<td>Calgro M3 Green Project</td>
<td>The project involves construction of insulated ceiling and the installation of solar water heaters and energy efficient lighting as part of the integrated urban housing energy project.</td>
<td>Renewable Energy</td>
<td>40 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr Peter Muriuki Waweru</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The project aim to increase efficiency in Ferrochrome (FeCr) production process through the preparation of chromite ore with the use of Pelletizing and Sintering technology.</td>
<td>Energy Efficiency</td>
<td>50 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Email: <a href="mailto:peter@calgrom3.com">peter@calgrom3.com</a></td>
</tr>
<tr>
<td>24 November 2008</td>
<td>Pelletizing and Sintering Plant 3 (PSP3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Heather Booyens</td>
</tr>
</tbody>
</table>
| 10 December 2008      | Kloof #3 Ice Chiller Project                           | The project involves the introduction of ice-chiller system where ice would be the prime carrier of chill energy as opposed to water.                                                                            | Energy Efficiency   | 60 441                        | 21                | • Project Idea approved by the DNA  
• The project is on hold due to the withdrawal of Mitsubishi from the project. | Email: jan.du.plessis@goldfields.co.za        |
| 12 December 2008      | BioTherm Adcock Ingram Fuel Switching Project         | The project objective is to do combined heat and power natural gas as fuel source and in the process displace grid electricity and coal derived steam.                                                          | Fuel Switch         | 23 480                        | 10                | • Project Idea approved by the DNA  
• The project is temporarily withdrawn from the CDM Database | Mr Johan Van Den Berg                         |
<table>
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</thead>
</table>
| 12 January 2009       | Dissemination of Institutional Fuel Efficient Biomass Stoves in South Africa | The project aims to reduce greenhouse gas emissions, curb deforestation and improve air quality through the manufacture and dissemination of institutional fuel efficient biomass stoves to schools and other institutions throughout South Africa. | Renewable Energy | 3 000 | 10 | • Project idea approved by the DNA | Mr McWilliam Mabaso  
Cell: 079 381 3977  
Cell: 072 671 9199  
Email: mchipele@gmail.com |
| 13 February 2009      | Umoya Energy | The objective of the project is to establish a new wind energy facility on the farms Kopenfontein 346/25, Kerschbosch dam 347/0 and Coeratenberg 307/3 near Hopefield in Western Cape. | Renewable Energy | 250 000 | 21 | • Project idea approved by the DNA | Ms Helen Tregurtha  
Tel: 021 670 1225  
Cell: 082 882 3103  
Fax: 021 670 1220  
Email: helen.tregutha@umoyaenergy.com |
| 20 February 2009      | Nelson Mandela Bay Municipality Solar Water Heating Project | The objective of the project is to provide hot water supplied from solar heating systems (SWH’s) to customers in the Metropolitan area around Port Elizabeth. | Renewable Energy | 280 000 | 21 | • Project idea approved by the DNA | Dr Manny Singh  
Tel: 011 280 0342  
Fax: 011 280 0552  
Cell: 079 183 6049  
Email: mannys@cef.org.za |
| 24 February 2009      | Nelson Mandela Bay Metropolitan Street Lighting Efficiency Project | The project aims to upgrade street lighting in Nelson Mandela Bay Metropolitan by replacing low efficient luminaries with more efficient luminaries. | Energy Efficiency | 15 000 | 10 | • Project idea approved by the DNA | Mr Raoul Goosen  
Tel: 011 280 0334  
Fax: 011 880 9803  
Email: raougg@cef.org.za |
| 24 February 2009      | Energy Management at Nelson Mandela Bay Metropolitan’s Waste Water Treatment facilities Project | The project aims at demand side management (DSM) to reduce electricity consumption at six waste water treatment facilities (WWTFs) in Nelson Mandela Bay Metropolitan (NMBM). | Waste Management | 9 000 | 10 | • Project idea approved by the DNA | Dr Manny Singh  
Tel: 011 280 0342  
Fax: 011 280 0552  
Cell: 079 183 6049  
Email: mannys@cef.org.za |
| 02 April 2009         | Ethanol-to-Ethylene: Substation of fossil derived ethylene with bio-ethanol feedstock at Safripol HDPE plant | To reduce greenhouse gas emission by substituting fossil (coal-liquids) derived ethylene feedstock used for high density polyethylene (HDPE) production with renewable biomass derived feedstock. | Fuel Switch | 1 000 000 | 14 | • Project idea approved by the DNA  
The project is on hold due to the confusion over government fuel policy. | Geoff Gaywood  
Tel: 011 575 0932  
Cell: 076 619 2366  
Fax: 011 576 0932  
Email: geoff_gaywood@safripol.com |
<table>
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<th>Project Developer /Owner</th>
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</thead>
<tbody>
<tr>
<td>02 April 2009</td>
<td>Fuel switch, from coal to biomass at Brick &amp; Clay (Pty) Ltd, South Africa</td>
<td>The will implement a fuel switch from coal to biomass in the existing brick-firing kilns and chain grate stocker at Brick &amp; Clay (Pty) Ltd.</td>
<td>Fuel Switch</td>
<td>18 474</td>
<td>7 (renewable twice)</td>
<td>• Project Idea approved by the DNA • The development of the project is delayed by financial constraints faced by the project developers</td>
<td>Mr. Avinash Sarda Tel: 043 781 1987 Fax: 086 532 4124 Email: <a href="mailto:argo_technologies@yahoo.co.in">argo_technologies@yahoo.co.in</a></td>
</tr>
<tr>
<td>02 April 2009</td>
<td>Fuel switch, from coal to biomass at Blueberry Hills Ltd, South Africa</td>
<td>This project will switch from coal to biomass fuel (bio coal) in the existing boilers at Blueberry Hills Farms.</td>
<td>Fuel Switch</td>
<td>8 819</td>
<td>7 (renewable twice)</td>
<td>• Project Idea approved by the DNA • The development of the project is delayed by financial constraints faced by the project developers</td>
<td>Mr. Avinash Sarda Tel: 043 781 1987 Fax: 086 532 4124 Email: <a href="mailto:argo_technologies@yahoo.co.in">argo_technologies@yahoo.co.in</a></td>
</tr>
<tr>
<td>02 April 2009</td>
<td>Fuel switch, from coal to biomass at Summerpride foods, South Africa</td>
<td>The project activity is a fuel switch from coal to bio mass in this existing boiler at Summerpride Foods.</td>
<td>Fuel Switch</td>
<td>26 093</td>
<td>7 (renewable twice)</td>
<td>• Project Idea approved by the DNA • The development of the project is delayed by financial constraints faced by the project developers</td>
<td>Mr. Avinash Sarda Tel: 043 781 1987 Fax: 086 532 4124 Email: <a href="mailto:argo_technologies@yahoo.co.in">argo_technologies@yahoo.co.in</a></td>
</tr>
<tr>
<td>02 April 2009</td>
<td>Fuel switch coal to biomass at East London Abattoir, South Africa</td>
<td>The project activity is a fuel switch from coal to bio mass in this existing boiler at East London Abattoir, South Africa</td>
<td>Fuel Switch</td>
<td>18 474</td>
<td>7 (renewable twice)</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Avinash Sarda Tel: 043 781 1987 Fax: 086 532 4124 Email: <a href="mailto:argo_technologies@yahoo.co.in">argo_technologies@yahoo.co.in</a></td>
</tr>
<tr>
<td>07 April 2009</td>
<td>Nelson Mandela Bay Municipality Wind Power Project</td>
<td>The project will aim to produce 60 MW of electricity for the NMBM, and will be sold from the project developer to the Municipality on a yearly basis. This will replace the conventional manner of relying on coal to produce electricity</td>
<td>Renewable Energy</td>
<td>5 679 538</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Kumesh Naidoo Tel: +27 01 020 14732 Fax: +27 11 280 0582 Email: <a href="mailto:kumeshn@ceforg.za">kumeshn@ceforg.za</a></td>
</tr>
<tr>
<td>08 April 2009</td>
<td>Khwe Khoa Langfontein Wind Energy Project</td>
<td>The project objective is to erect a 120 MW wind farm in the Western Cape about ten kilometres Northeast of Yzerfontein</td>
<td>Renewable Energy</td>
<td>56 795</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Johan Van Den Berg Tel: 011 361 1550 Fax: 011 361 1300 Cell: 082 925 5680 Email:</td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>Project Title</td>
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<tr>
<td>17 April 2009</td>
<td>Kerrifontein Wind Farm Project</td>
<td>The project proposes to demonstrate the technical viability and improve the financial feasibility of wind energy in South Africa.</td>
<td>Renewable Energy</td>
<td>223 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td><a href="mailto:johanvdb@cdmafrica.com">johanvdb@cdmafrica.com</a></td>
</tr>
<tr>
<td>18 May 2009</td>
<td>National CDM facilities PPP between Second Economy and Public Sector</td>
<td>The project aims to create a CDM project design, formulation, facilitation engineering and management capacity for the &quot;second economy&quot; and the Public Sector, integrated and seamless process along the 5 tier CDM stations from local to international.</td>
<td>Waste Management</td>
<td></td>
<td>7</td>
<td>• Project Idea in a review process by the DNA</td>
<td></td>
</tr>
<tr>
<td>22 May 2009</td>
<td>Mitigation of Methane Emissions in the Charcoal Production of Silicon Smelters in South Africa</td>
<td>The project aims to reduce methane emissions from the charcoal production by burning off-gases of the process</td>
<td>Industrial Process</td>
<td>30 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Thierry Alban Revert Tel: 073 303 1554 Fax: 011 887 7833 Cell: 073 303 1554 Email: <a href="mailto:tar@planetac.co.za">tar@planetac.co.za</a></td>
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<td>Lawrrence Gadzikwa Tel: 072 294 0663 Fax:0027118877833 Email: <a href="mailto:lgadzikwa@hotmail.com">lgadzikwa@hotmail.com</a></td>
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<td>Benoist Ollivier Tel: +27 15 290 3136 Cell: +27 82 809 2704 Email: <a href="mailto:benoist.ollivier@invensil.co.za">benoist.ollivier@invensil.co.za</a></td>
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<td>Alex Kuhl Tel: +27 15 290 3134 Email: <a href="mailto:alex.kuhl@invensil.co.za">alex.kuhl@invensil.co.za</a></td>
</tr>
<tr>
<td>22 May 2009</td>
<td>Rand Carbide FerroSilicon Energy Efficiency and Reductant Substitution Project</td>
<td>The project intends to introduce 'renewable' reductants sources and to promote energy efficiency measures, which will reduce GHG emissions</td>
<td>Industrial Process</td>
<td>184 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Benoist Ollivier Tel: +27 15 290 3136 Cell: +27 82 809 2704 Email: <a href="mailto:benoist.ollivier@invensil.co.za">benoist.ollivier@invensil.co.za</a></td>
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<td>André Nél Tel: +27 13 690 8245 +33 61 674 8216 Email: <a href="mailto:andren@randcarbide.co.za">andren@randcarbide.co.za</a></td>
</tr>
<tr>
<td>28 May 2009</td>
<td>Nelson Mandela Bay Metropolitan (NMBM) Hydro Power Project</td>
<td>The objective of the project is to produce clean electricity through</td>
<td>Renewable Energy</td>
<td>109 158</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Tebogo Snyer Tel: +27 10 201 4779</td>
</tr>
<tr>
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<td>29 May 2009</td>
<td>Bellville Landfill Gas Project</td>
<td>The objective of the project is to extract, collect, and destroy landfill gas from several landfill sites in the City of Cape Town Municipality and finally utilize it for electricity generation</td>
<td>Waste Management</td>
<td>193 595</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Kumesh Naidoo Tel: +27 10 210 4732 +27 82 563 1363 Fax:+27 11 280 0582 Email: <a href="mailto:kumeshn@cefgroup.co.za">kumeshn@cefgroup.co.za</a></td>
</tr>
<tr>
<td>29 May 2009</td>
<td>Coastal Park Landfill Gas Project</td>
<td>The objective of the project is to extract, collect, and destroy landfill gas from several landfill sites in the City of Cape Town Municipality and finally utilize it for electricity generation</td>
<td>Waste Management</td>
<td>153 164</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Kumesh Naidoo Tel: +27 10 210 4732 +27 82 563 1363 Fax:+27 11 280 0582 Email: <a href="mailto:kumeshn@cefgroup.co.za">kumeshn@cefgroup.co.za</a></td>
</tr>
<tr>
<td>29 May 2009</td>
<td>Vissershok Landfill Gas Project</td>
<td>The objective of the project is to extract, collect, and destroy landfill gas from several landfill sites in the City of Cape Town Municipality and finally utilize it for electricity generation</td>
<td>Waste Management</td>
<td>255 530</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Kumesh Naidoo Tel: +27 10 210 4732 +27 82 563 1363 Fax:+27 11 280 0582 Email: <a href="mailto:kumeshn@cefgroup.co.za">kumeshn@cefgroup.co.za</a></td>
</tr>
<tr>
<td>29 May 2009</td>
<td>Faure and Swartklip Landfill Gas Project</td>
<td>The objective of the project is to extract, collect, and destroy landfill gas from several landfill sites in the City of Cape Town Municipality and finally utilize it for electricity generation</td>
<td>Waste Management</td>
<td>80 573</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Kumesh Naidoo Tel: +27 10 210 4732 +27 82 563 1363 Fax:+27 11 280 0582 Email: <a href="mailto:kumeshn@cefgroup.co.za">kumeshn@cefgroup.co.za</a></td>
</tr>
<tr>
<td>18 June 2009</td>
<td>Boitshepi Landfill Gas Project</td>
<td>The objective of the project is to extract, collect, destroy and utilize landfill gas from Boitshepi landfill site in the Emfuleni Municipality. The gas is used to generate</td>
<td>Waste Management</td>
<td>56 274</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Kumesh Naidoo Tel: +27 10 201 4700 +27 82 563 1363 Fax:+27 10 201 4820 Email: <a href="mailto:kumeshn@cefgroup.co.za">kumeshn@cefgroup.co.za</a></td>
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<td>18 June 2009</td>
<td>Waldrift Landfill Gas Project</td>
<td>The objective of the project is to extract, collect, destroy and utilize landfill gas from Waldrift landfill site in the Emfuleni Municipality. The gas is used to generate electricity</td>
<td>Waste Management</td>
<td>5 752</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td><a href="mailto:kumeshn@cefgroup.co.za">kumeshn@cefgroup.co.za</a></td>
</tr>
<tr>
<td>09 July 2009</td>
<td>Installation of water efficient showerheads or Low Flow Shower Heads (LFSH) and Flow Regulators (FR) to reduce emissions</td>
<td>The objective of the project is to install water efficient showerheads and flow regulators to decrease electricity consumption of South African households so that certified emission reduction units (CERs) can be created and traded</td>
<td>Energy Efficiency</td>
<td>7 302 977</td>
<td>7 (renewable 4 times)</td>
<td>• Project Idea approved by the DNA</td>
<td></td>
</tr>
<tr>
<td>14 July 2009</td>
<td>Ga-Rankuwa and Soshanguve Landfill Gas to Energy Project</td>
<td>The objective of the project is to extract, collect and utilize landfill gas from Ga-Rankuwa and Soshanguve landfill sites in Tshwane. The gas is expected to generate electricity finally.</td>
<td>Waste Management</td>
<td>77 073</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td><a href="mailto:kumeshn@cef.org.za">kumeshn@cef.org.za</a></td>
</tr>
<tr>
<td>14 July 2009</td>
<td>Hatherley and Kwaggasrand Landfill Gas to Energy Project</td>
<td>The objective of the project is to extract, collect and utilize gas from Hatherley and Kwaggasrand landfill sites in Tshwane. The gas is expected to generate electricity finally.</td>
<td>Waste Management</td>
<td>79 299</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td><a href="mailto:kumeshn@cef.org.za">kumeshn@cef.org.za</a></td>
</tr>
<tr>
<td>14 July 2009</td>
<td>Gartskloof and Onderstepoort Landfill Gas to Energy Project</td>
<td>The objective of the project is to extract, collect and utilize landfill gas from Gartskloof and Onderstepoort landfill sites in Tshwane. The gas is expected to generate electricity finally.</td>
<td>Waste Management</td>
<td>85 133</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td><a href="mailto:kumeshn@cef.org.za">kumeshn@cef.org.za</a></td>
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<td>20 July 2009</td>
<td>South Africa Solar Water Heating Project</td>
<td>The proposed project is a CDM Programme of Activities (PoA). The objective of the project is to reduce Carbon Dioxide (CO2) emissions in South Africa through avoidance of electricity generated for the purpose of heating water for individual use.</td>
<td>Renewable Energy</td>
<td>60 000</td>
<td>21</td>
<td>• Project Idea approved by the DNA</td>
<td>Duncan Abel&lt;br&gt;Unlimited Energy Resources&lt;br&gt;Tel: 011 726 1379&lt;br&gt;Email: <a href="mailto:duncan@unlimitedenergy.co.za">duncan@unlimitedenergy.co.za</a></td>
</tr>
<tr>
<td>22 September 2009</td>
<td>Energy Efficiency in Low Cost Housing Developments Project</td>
<td>The objective of the programme is to facilitate the implementation of interventions to improve thermal performance and water heating efficiencies in subsidised housing developments, both new and existing developments.</td>
<td>Energy Efficiency</td>
<td>800 000</td>
<td>21</td>
<td>• Project Idea approved by the DNA</td>
<td>Carl Wesselink&lt;br&gt;Carbon Programmes (Pty) Ltd&lt;br&gt;Tel: 021 465 7522&lt;br&gt;Fax: 021 465 7631&lt;br&gt;Cell: 072 532 0270&lt;br&gt;Email: <a href="mailto:carlw@iafrica.com">carlw@iafrica.com</a></td>
</tr>
<tr>
<td>28 September 2009</td>
<td>Cape Town Integrated Bus Rapid Transport System Project,</td>
<td>The objective of the proposed project is to achieve transport efficiency and consume less fuel through the creation of Bus Rapid Transport System for the city of Cape Town, replacing the old inefficient bus and minibus system</td>
<td>Transport</td>
<td>1 400 000</td>
<td>21</td>
<td>• Project Idea approved by the DNA&lt;br&gt;The project is on hold due to budget constraints.</td>
<td>Niki Covary&lt;br&gt;City of Cape Town&lt;br&gt;Tel: 021 400 4717&lt;br&gt;Fax: 086 544 4445&lt;br&gt;Email: <a href="mailto:Niki.covary@capetown.gov.za">Niki.covary@capetown.gov.za</a></td>
</tr>
<tr>
<td>18 December 2009</td>
<td>BioTherm PFG Waste Heat Recovery Project</td>
<td>The object of the proposed project activity is to harness waste heat to generate steam. By doing this emission reductions are achieved due to offsetting coal combustion historically used as fuel source for the steam</td>
<td>Waste Management</td>
<td>73 800</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Johan van den Berg&lt;br&gt;BioTherm Energy (Pty) Ltd&lt;br&gt;Tel: 011 367 4600&lt;br&gt;Cell: 082 925 5680&lt;br&gt;Fax: 011 367 4601&lt;br&gt;Email: <a href="mailto:jvandenberg@biothermenergy.com">jvandenberg@biothermenergy.com</a></td>
</tr>
<tr>
<td>18 January 2010</td>
<td>Low Pressure Solar Water Heating Pilot Project for Low-Cost Housing (NMBM)</td>
<td>The objective of the project is to provide low pressure solar water heaters (SWHe) to the low-cost households to meet their</td>
<td>Renewable Energy</td>
<td>3 241</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Steyn van der Merwer&lt;br&gt;Nelson Mandela Bay Municipality&lt;br&gt;Tel: 041 392 4245&lt;br&gt;Fax: 041 392 4262</td>
</tr>
</tbody>
</table>

20 July 2009 South Africa Solar Water Heating Project

021 465 7522

Email: duncan@unlimitedenergy.co.za

021 465 7631

Cell: 072 532 0270

Email: carlw@iafrica.com

086 544 4445

Email: Niki.covary@capetown.gov.za

011 367 4600

Cell: 082 925 5680

Email: jvandenberg@biothermenergy.com

041 392 4245

Fax: 041 392 4262
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<tr>
<td>18 January 2010</td>
<td>Nelson Mandela Bay Metropolitan CFL Project</td>
<td>The objective of the project is to replace all normal frequently used incandescent lamps within households to CFLs. The project will target frequently used incandescent lamps in the residential sector for conversion to CFLs.</td>
<td>Energy Efficiency</td>
<td>14 147</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Email: <a href="mailto:stvdmerwe@mandelametro.gov.za">stvdmerwe@mandelametro.gov.za</a></td>
</tr>
<tr>
<td>25 January 2010</td>
<td>A programme to implement the installation of energy efficient cooking technologies in households, institutions and small businesses in South Africa</td>
<td>The objective of the programme is to support the large scale commercialization of energy efficiency in South Africa, by promoting the sustainable use of biomass for cooking and space heating in rural and peri-urban areas, reducing consumption of non-renewable biomass in particular. Additional the programme will support the large-scale dissemination of safer and more efficient paraffin burning appliances</td>
<td>Energy Efficiency</td>
<td>60 000</td>
<td>28</td>
<td>• Project Idea approved by the DNA</td>
<td>Email: <a href="mailto:nonhlanhlan@cefgroup.co.za">nonhlanhlan@cefgroup.co.za</a></td>
</tr>
<tr>
<td>5 February 2010</td>
<td>Ekurhuleni Municipality Solar Water Heating Program</td>
<td>The objective of the project is to provide hot water supplied from solar heating systems (SWHs) to customers in the Metropolitan area around Ekurhuleni to replace hot water supply systems which currently rely on coal-fired electricity conversion.</td>
<td>Renewable Energy</td>
<td>375 233</td>
<td>15</td>
<td>• Project Idea approved by the DNA</td>
<td>Email: <a href="mailto:mannys@cef.org.za">mannys@cef.org.za</a></td>
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</table>
| 15 March 2010         | Virtual Power Supply (VPS) | The objective of the project is to provide sustainable environmentally friendly solutions to mainstream industrial companies, using high heat processes; this will result in improved efficiency, reduced fossil fuel usage and a calculated reduction in carbon emissions | Energy Efficiency | 1 800 000 | 21 | • Project Idea approved by the DNA | Jourie Lombard  
Tony Edwards  
Mexel Energy (Pty) Ltd  
Tel: +27 12 743 5999  
Fax: +27 86 684 145  
Cell: +27 83 284 6312  
Email: info@mexelenergy.com |
| 16 March 2010         | Massive introduction of LEDs to rural communities | The objective of the project is to stop the use of kerosene in rural areas by implementing solar lights in order to cut down greenhouse gases | Renewable Energy | 104 300 | 10 | • Project Idea approved by the DNA | Steve Iretton  
CARE-Clean Air Rehabilitation Effort Ltd  
Cell: +2783 448 3448  
Fax: +2786 505 5988  
Email: steve@justcare.co.za |
| 16 March 2010         | Installation of Energy Efficient Cookers in rural areas | The objective of the project is to provide rural communities with energy efficient stoves to avoid the use of burning of wood to cut down greenhouse gas emissions | Energy Efficiency | 2 720 000 | 10 | • Project Idea approved by the DNA | Steve Iretton  
CARE-Clean Air Rehabilitation Effort Ltd  
Cell: +2783 448 3448  
Fax: +2786 505 5988  
Email: steve@justcare.co.za |
| 17 March 2010         | Darling Wind Farm Phase 2 | The objective of the project is to commission a 7.8 MW wind farm to feed clean electricity to the grid and thus help in the reduction of greenhouse gases | Renewable Energy | 23 760 | 10 | • Project Idea approved by the DNA | Herman Oelsner  
Oelsner Group (Pty) Ltd  
P O Box 13  
Darling  
7345  
Western Cape (RSA)  
Tel: +27 22 492 3095  
Cell: +27 83 281 5301  
Fax: +27 22 492 3096  
Email: oelsengrp@wcaccess.co.za |
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<tr>
<td>09 April 2010</td>
<td>Replacement of incandescent light bulbs with Compact Fluorescent Lights in South Africa</td>
<td>The objective of the project is to supply energy efficient compact fluorescent lights (CFLs) to the residential sector in South Africa to replace existing incandescent light bulbs (IB). More efficient use of lighting energy would limit the rate of increase of electric power consumption in South Africa, reduce the economic and social costs resulting from constructing new generating capacity, and reduce the emissions of greenhouse gases and other pollutants.</td>
<td>Energy Efficiency</td>
<td>490 000</td>
<td>7</td>
<td>• Project Idea approved by the DNA</td>
<td>Ciska Terblanche CDM Africa Climate Solutions 407 Juliana, Princess Place, Parktown, Johannesburg, 2193 Cell: +27 82 898 5750 <a href="mailto:Ciska@cdmafrica.com">Ciska@cdmafrica.com</a></td>
</tr>
<tr>
<td>14 April 2010</td>
<td>Distribution of Portable Solar Water Heater for Safe Drinking Purposes</td>
<td>The objective of the project is to provide rural communities with portable solar water heaters for safe drinking, hygiene, cooking and washing purposes. The project will avoid the use of burning wood to cut down the greenhouse gas emissions.</td>
<td>Renewable Energy</td>
<td>1 720 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Steve Ireton Clean Air Rehabilitation Effort Ltd P O Box 1403 Witkoppen 2068 Cell: +27 83 448 3448 Fax: +27 86 505 5988 Email: <a href="mailto:steve@justcare.co.za">steve@justcare.co.za</a></td>
</tr>
<tr>
<td>20 April 2010</td>
<td>Low Pressure Solar Water Heating Program</td>
<td>The aim of this project is to provide hot water supplied from solar water heating systems to customers in the metropolitan area around NMMB and EMM to replace hot water supply systems which currently rely on coal-fired electricity conversion – predominantly using electrical storage water heaters (geysers).</td>
<td>Renewable Energy</td>
<td>244 876</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Chris Nelson Solar Academy of Sub Saharan afrc (Pty) Ltd Tel: +27 86 111 1203 Tel: +27 22 492 3095 Email: <a href="mailto:chrisn@rtc.co.za">chrisn@rtc.co.za</a></td>
</tr>
<tr>
<td>20 April 2010</td>
<td>The Kerrifontein/ Darling Phase 2 Wind Farm Project</td>
<td>The aim of this project is to commission a 20.8 MW wind farm</td>
<td>Renewable Energy</td>
<td>633 600</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Herman Oelsner Oelsner Group (Pty) Ltd</td>
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<td>13 May 2010</td>
<td>The eThekwini Mini-Hydro’s Electricity Generation Project</td>
<td>The objective of the project is to generate hydro electrical power using mini (100kW to 1 MW) or micro (&lt;100kW), in pipe turbines from excess pressure head that is presently dissipated by pressure relief valves at 12 to 18 selected points in the eThekwini Municipality’s bulk water supply pipeline and reservoir network.</td>
<td>Renewable Energy</td>
<td>12 000</td>
<td>14 years plus 7 years possible renewal</td>
<td>• Project Idea approved by the DNA</td>
<td>Tel: +27 22 492 3095 Cell: +27 83 261 5301 Fax: +27 22 492 3096 Email: <a href="mailto:oelsnergrp@wcaccess.co.za">oelsnergrp@wcaccess.co.za</a></td>
</tr>
<tr>
<td>13 May 2010</td>
<td>The eThekwini Western Aqueduct Hydro Electricity Generation Project</td>
<td>The objective of the project is to generate hydro electric power from excess pressure head that is required to be dissipated at two points on the Western Aqueduct bulk water supply pipeline</td>
<td>Renewable Energy</td>
<td>34 407</td>
<td>14 years plus 7 years possible renewal</td>
<td>• Project Idea approved by the DNA</td>
<td>Dr. Debra Roberts The eThekwini Municipality Tel: +27 31 311 7527 Cell: +27 71 850 7234 Fax: +27 31 311 7134 Email: <a href="mailto:robertsd@durban.gov.za">robertsd@durban.gov.za</a></td>
</tr>
<tr>
<td>13 May 2010</td>
<td>The eThekwini Southern WWTW (Waste Water Treatment Works) AD (Anaerobic Digestion) Biogas to Energy Project</td>
<td>The key objectives of the project are to treat sewage sludge which is currently disposed to sea-outfall in the southern region of Durban; produce sufficient energy in the form of methane-rich biogas which is to be converted to electrical power and offer a nutrient return to the environment by way of management, treatment, storage and utilisation of the nutrient-rich digestate from the anaerobic processes</td>
<td>Methane Recovery &amp; Flaring</td>
<td>97 038</td>
<td>14 years plus 7 years possible renewal</td>
<td>• Project Idea approved by the DNA</td>
<td>Dr. Debra Roberts The eThekwini Municipality Tel: +27 31 311 7527 Cell: +27 71 850 7234 Fax: +27 31 311 7134 Email: <a href="mailto:robertsd@durban.gov.za">robertsd@durban.gov.za</a></td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>Project Title</td>
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<tr>
<td>13 May 2010</td>
<td>The Mariannhill Mechanical Biological Waste Treatment (MBT) to Energy Project</td>
<td>The objective of the project is to reduce waste disposal volumes to landfill by treatment of organic wastes and to release value from waste reuse in order to offer job creation and energy generation by way of a Mechanical Biological Waste Treatment process.</td>
<td>Methane Recovery &amp; Flaring</td>
<td>24 872</td>
<td>14 years plus 7 years possible renewal</td>
<td>Project Idea approved by the DNA</td>
<td>Dr. Debra Roberts  The eThekwini Municipality  Tel: +27 31 311 7527  Cell: +27 71 850 7234  Fax: +27 31 311 7134  Email: <a href="mailto:robertsd@durban.gov.za">robertsd@durban.gov.za</a></td>
</tr>
<tr>
<td>14 May 2010/ Re-submitted on the 12 August 2010</td>
<td>CSP South Africa</td>
<td>The objective of the project is to create a new industry in clean energy which will assist in reducing the country’s reliance on existing coal powered grid stations as well as creating new jobs.</td>
<td>Renewable Energy</td>
<td>525 600</td>
<td>14</td>
<td>Project Idea approved by the DNA</td>
<td>Farouk Omar Ayob  Farina Energy Trust  Tel: 018 381 0280/1  Cell: 083 231 3456  Fax: 018 381 0281  Email: <a href="mailto:ayobs@ayobs.co.za">ayobs@ayobs.co.za</a></td>
</tr>
<tr>
<td>27 May 2010</td>
<td>Rance Timber Biomass-to-Energy Project</td>
<td>The aim of the project is to utilise biomass by-products from the sawmilling and plantation operations for electricity and heat generation, thereby substituting the use of conventional coal-based electricity and making Rance Timber sawmills self sufficient with energy</td>
<td>Renewable Energy</td>
<td>75 000</td>
<td>21</td>
<td>Project Idea approved by the DNA</td>
<td>Mr. John Rance  Tel: 043 683 5202  Fax:086 545 0433  Email: <a href="mailto:crance@ranctimber.co.za">crance@ranctimber.co.za</a></td>
</tr>
<tr>
<td>23 June 2010</td>
<td>Kruisvallei Hydro Electricity Project</td>
<td>The objective of the project is to generate hydroelectricity by harnessing the potential energy of the flow of Ash river.</td>
<td>Renewable Energy</td>
<td>34 000</td>
<td>10</td>
<td>Project Idea approved by the DNA</td>
<td>Christiaan Bode  Kruisvallei Hydro Pty (Ltd)  Tel: 031 311 1286  Fax: 031 305 2730  Cell: 082 822 4792  Email: <a href="mailto:cboode@sidalaco.za">cboode@sidalaco.za</a></td>
</tr>
<tr>
<td>16 July 2010</td>
<td>eThekwini Municipality Solar water Heaters Programme</td>
<td>The objective of the project is to install 100 000 solar water heaters in upper income residential areas</td>
<td>Renewable Energy</td>
<td>27 580</td>
<td>10</td>
<td>Project Idea approved by the DNA</td>
<td>Teboho Motshohi  eThekwini municipality  Tel: 031 311 1286</td>
</tr>
<tr>
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<tr>
<td>05 August 2010</td>
<td>Grahamastown Invasive Biomass Power Project</td>
<td>around eThekwini Municipality. The invasive Biomass Project involves the utilization of invasive alien plants as the biomass feedstock for the sustainable generation of electricity. The biomass will be sourced through the clearing of more than 7,500 hectares of invasive alien plants (eucalyptus, acacia, etc.) to power a 3,0 MW biomass power production facility.</td>
<td>Renewable Energy</td>
<td>21 000</td>
<td>21</td>
<td>Project idea approved by the DNA</td>
<td>Charlie Cox  Tel: 083 685 6863  Email: <a href="mailto:Charlie@nollengroup.com">Charlie@nollengroup.com</a>  Nollen Group  <a href="http://www.nollengroup.com">www.nollengroup.com</a></td>
</tr>
<tr>
<td>26 August 2010</td>
<td>EThekwini Energy Efficient Street Lighting and Robots</td>
<td>The aim of the project is to reduce energy consumption in the eThekwini municipal infrastructure</td>
<td>Energy Efficiency</td>
<td>16 431</td>
<td>10</td>
<td>Project idea approved by the DNA</td>
<td>Teboho Motshohi  Tel: 031 311 1286  Fax: 031 305 2730  Email: <a href="mailto:motshohiteboho@durban.gov.za">motshohiteboho@durban.gov.za</a></td>
</tr>
<tr>
<td>07 September 2010</td>
<td>The DWS Anaerobic Digestion (AD) Waste Treatment to Energy Project.</td>
<td>The objective of the project is to reduce waste disposal volumes to landfill by treatment of food and organic wastes.</td>
<td>Waste management</td>
<td>18 120</td>
<td>14</td>
<td>Project idea approved by the DNA</td>
<td>Mr Jeremy Droyman  Tel: 031 309 9400  Cell: 082 456 2291  Fax: 031 309 1250  Email: <a href="mailto:Jeremy@dontwaste.co.za">Jeremy@dontwaste.co.za</a></td>
</tr>
<tr>
<td>09 September 2010</td>
<td>Electrawinds Sisonke Energy</td>
<td>The aim of the project is to generate electricity from wind.</td>
<td>Renewable Energy</td>
<td>263 000</td>
<td>10</td>
<td>Project idea approved by the DNA</td>
<td>Luvuyo Kebeni  Tel: +27 43 721 3001  Fax: 086 547 1095  Cell: 082 548 5721  Email: <a href="mailto:luvuyo@sisonke-energy.co.za">luvuyo@sisonke-energy.co.za</a></td>
</tr>
<tr>
<td>14 September 2010</td>
<td>Kasi Rural Outreach</td>
<td>The objective of the project is to utilize energy efficient technology which is powered by renewable energy sources</td>
<td>Renewable Energy</td>
<td>337 146</td>
<td>21</td>
<td>Project idea approved by the DNA</td>
<td>Sam Dugbarterey  Tel: 011 673 7208  Fax: 011 673 7208  Cell: 082 708 2667  Email: <a href="mailto:moldu@iburst.co.za">moldu@iburst.co.za</a></td>
</tr>
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</tbody>
</table>
| 16 September 2010     | Wind Farm Beaufort West Phase 1 | The objective of the proposed project is to construct and operate an 80MW wind farm to generate electricity that will be connected into the national high voltage grid | Renewable energy | 189 000 | 20 | • Project idea approved by the DNA | Mr. Florian Kroeber  
Wind Farm Beaufort West Phase 1 (Pty) Ltd  
Tel: +27 31 301 6444  
Cell: +27 83 447 7848  
Email: Florian.kroeber@astrumenergy.com |
| 17 September 2010     | Heat Pump and Hybrid Solution Programme for South Africa | The objective of the project is to install heat pump and hybrid systems in high income households and SME throughout South Africa. | Renewable Energy | 237 528 | 10 | • Project idea approved by the DNA | Laura Lahti  
Tel: +27 79 542 3553  
Email: Laura.lahti@intlcarbon.com |
| 07 October 2010       | Lighting & Standard Bank Efficient Lighting Programme of Activities | The objective of the proposed project is to install energy efficient lighting technologies and systems in commercial buildings across South Africa. | Energy Efficiency | 6 869 | 10 | • Project idea approved by the DNA | Geoff Sinclair/ Lawrence Cole-Morgan  
Tel: 011 631 6608  
Fax: 44 203 189 6980  
Email: Co2@standardbank.com |
| 12 October 2010       | Grid Connected Wind Power Plant in Lamberts Bay, South Africa | The objective of the proposed project is to use wind turbine to generate electricity. | Renewable Energy | 145 230 | 25 | • Project idea approved by the DNA | Nicolas Rolland  
G7 Renewable Energies (Pty) Ltd  
Tel: +27 21 409 1485  
Cell: +27 83 631 0383  
Email: Nicolas@g7energies.com |
| 12 October 2010       | Grid Connected Wind Power Plant in Richtersveld, South Africa | The objective of the proposed project is to use wind turbine to generate electricity. | Renewable Energy | 608 730 | 25 | • Project idea approved by the DNA | Nicolas Rolland  
Tel: +27 21 409 1485  
Fax: 086 514 1735  
Cell: +27 83 631 0383  
Email: Nicolas@g7energies.com |
| 12 October 2010       | Grid Connected Wind Power Plant in Klawer, South Africa | The objective of the proposed project is to use wind turbine to generate electricity. | Renewable Energy | 96 820 | 25 | • Project idea approved by the DNA | Nicolas Rolland  
G7 Renewable Energies (Pty) Ltd  
Tel: +27 21 409 1485  
Fax: 086 514 1735  
Cell: +27 83 631 0383  
Email: Nicolas@g7energies.com |
<table>
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<tr>
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<tr>
<td>12 October 2010</td>
<td>Grid Connected Wind Power Plant in Roggeveld, South Africa</td>
<td>The objective of the proposed project is to use wind turbine to generate electricity</td>
<td>Renewable Energy</td>
<td>2,030,130</td>
<td>25</td>
<td>Project idea approved by the DNA</td>
<td>Nicolas Rolland G7 Renewable Energies (Pty) Ltd Tel:+27 21 409 1485 Fax: 086 514 1735 Cell:+27 83 631 0383 Email: <a href="mailto:nicolas@g7energies.com">nicolas@g7energies.com</a></td>
</tr>
<tr>
<td>12 October 2010</td>
<td>Grid Connection Wind Power Plant in Wilberg, South Africa</td>
<td>The objective of the proposed project is to use wind turbine to generate electricity</td>
<td>Renewable energy</td>
<td>484,100</td>
<td>25</td>
<td>Project idea approved by the DNA</td>
<td>Nicolas Rolland G7 Renewable Energies (Pty) Ltd Tel:+27 21 409 1485 Fax: 086 514 1735 Cell:+27 83 631 0383 Email: <a href="mailto:nicolas@g7energies.com">nicolas@g7energies.com</a></td>
</tr>
<tr>
<td>13 October 2010</td>
<td>SA Calcium Carbide Furnace Waste Gas to Electricity CDM project</td>
<td>The objective of the proposed project is to develop an 8MW electricity generation capacity project utilizing furnace waste off-gas.</td>
<td>Fuel switch</td>
<td>46,000</td>
<td>30</td>
<td>Project idea approved by the DNA</td>
<td>Mr. Claudio Siracusano SA Calcium Carbide (Pty) Ltd Tel: +27 34 370 1172 Fax: +27 34 370 1164 Cell: +27 83 627 5623 Email: <a href="mailto:claudios@sacarbide.com">claudios@sacarbide.com</a></td>
</tr>
<tr>
<td>20 October 2010</td>
<td>Russell Green Investment (Pty) Ltd Agricultural Energy efficiency improvement project related to NO-TILL farming methods South Africa</td>
<td>The objective of the proposed project is to promote and encourage energy efficiency in the agricultural sector</td>
<td>Energy Efficiency</td>
<td>60,000</td>
<td>28</td>
<td>Project idea approved by the DNA</td>
<td>Edward Adcock Russellstone Green Investment (Pty) Ltd Tel:+27 12 482 6600 Cell:+27 78 575 9989 Email: <a href="mailto:Edward@edisa.co.za">Edward@edisa.co.za</a></td>
</tr>
<tr>
<td>12 November 2010</td>
<td>Russellstone Green Investment Solar Water Heating Project</td>
<td>The objective of the proposed project is to install Solar Water Heating Systems (SWHS) in rural villages; low cost housing and agricultural sector</td>
<td>Energy Efficiency</td>
<td>140,000</td>
<td>28</td>
<td>Project idea approved by the DNA</td>
<td>Edward Adcock Russellstone Green Investment (Pty) Ltd 2010/00467/07 Tel: +27 12 482 6600 Cell: +27 78 575 9989 Email: <a href="mailto:edward@edisa.co.za">edward@edisa.co.za</a></td>
</tr>
<tr>
<td>29 November 2010</td>
<td>Deep River Grid Connected 70MW Wind Farm, South Africa</td>
<td>The objective of the proposed project is to construct and operate a solar park with installed capacity of about 70MW of electricity.</td>
<td>Renewable energy</td>
<td>1,783,000</td>
<td>20</td>
<td>Project idea approved by the DNA</td>
<td>Keith Kirby Vexicom (Pty) Ltd Tel: +27 87 809 3114 Fax: +27 87 809 2016 Email: <a href="mailto:Keith.kerby@ventusaenergy.com">Keith.kerby@ventusaenergy.com</a></td>
</tr>
<tr>
<td>29 November 2010</td>
<td>Gouda Grid Connected 120 MW Wind Farm, South Africa</td>
<td>The objective of the proposed project is to construct and operate</td>
<td>Renewable energy</td>
<td>2,934,000</td>
<td>20</td>
<td>Project idea approved by the DNA</td>
<td>Keith Kirby Vexicom (Pty) Ltd</td>
</tr>
<tr>
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<tr>
<td>29 November 2010</td>
<td>Wag'nbiekiespasn Grid Connected 25 MW Solar Park, South Africa</td>
<td>a solar park with installed capacity of about 120MW of electricity.</td>
<td>Renewable energy</td>
<td>555 000</td>
<td>20</td>
<td>by the DNA.</td>
<td>Keith Kirby Vexicom (Pty) Ltd Tel:+27 87 809 3114 Fax: +27 87 809 2016 Email: <a href="mailto:Keith.kerby@ventusaenergy.com">Keith.kerby@ventusaenergy.com</a></td>
</tr>
<tr>
<td>29 November 2010</td>
<td>Sishen Grid Connected 100 MW Solar Park, South Africa</td>
<td>The objective of the proposed project is to construct and operate a solar park with installed capacity of about 25MW of electricity.</td>
<td>Renewable Energy</td>
<td>2 139 500</td>
<td>20</td>
<td>Project idea approved by the DNA</td>
<td>Keith Kirby Vexicom (Pty) Ltd Tel:+27 87 809 3114 Fax: +27 87 809 2016 Email: <a href="mailto:Keith.kerby@ventusaenergy.com">Keith.kerby@ventusaenergy.com</a></td>
</tr>
<tr>
<td>30 November 2010</td>
<td>Hluluwe Wind Farm</td>
<td>The objective of the proposed project is to construct and operate a wind farm with installed capacity of about 49.5 MW of electricity. The produced electricity will be supplied to Eskom electricity network and displace the generation of traditional coal-based electricity.</td>
<td>Renewable energy</td>
<td>94 500</td>
<td>20</td>
<td>Project idea approved by the DNA</td>
<td>Mr Florian Kroeber EAB-astrum energy (Pty) Ltd Tel:+27 31 301 6444 Cell:+27 83 447 7848 Email: <a href="mailto:Florian.kroeber@astrumenergy.com">Florian.kroeber@astrumenergy.com</a> <a href="mailto:Yegis.reddy@astrumenergy.com">Yegis.reddy@astrumenergy.com</a></td>
</tr>
<tr>
<td>06 December 2010</td>
<td>Namaqualand Grid Connected 49.5 MW Wind farm, South Africa</td>
<td>The objective of the proposed project is to construct and operate a wind farm with installed capacity of about 49.5 MW of electricity. The produced electricity will be supplied to Eskom electricity network and displace the generation of traditional coal-based electricity.</td>
<td>Renewable energy</td>
<td>2 190 200</td>
<td>20</td>
<td>Project idea approved by the DNA</td>
<td>Johannes Coetsee Mulilo Longyuan JCV (Pty) Ltd Tel:+27 21 934 5278 Fax:+27 21 935 0505 Email: <a href="mailto:Johannes@mulilo.com">Johannes@mulilo.com</a></td>
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<tr>
<td>06 December 2010</td>
<td>Prieska Grid Connected 10 MW Solar Park, South Africa.</td>
<td>The objective of the proposed project is to construct and operate a solar park with installed capacity of about 10 MW of electricity. The produced electricity will be supplied to Eskom electricity network and displace the generation of traditional coal-based electricity.</td>
<td>Renewable energy</td>
<td>196 000</td>
<td>20</td>
<td>• Project idea approved by the DNA</td>
<td>Johannes Coetsee Mulilo Longyuan JCV (Pty) Ltd Tel:+27 21 934 5278 Fax:+27 21 935 0505 Email: <a href="mailto:johannes@mulilo.com">johannes@mulilo.com</a></td>
</tr>
<tr>
<td>06 December 2010</td>
<td>Spitskop Piggery</td>
<td>The objective of the proposed project is to convert the current waste management system based on an open lagoon with methane emissions and an associated odor problem into an energy asset.</td>
<td>Waste management</td>
<td>11 830</td>
<td>20</td>
<td>• Project idea approved by the DNA</td>
<td>Charl J Braak GH Braak Trust Tel:+27 12 802 4000 Fax: 086 612 5741 Cell:+27 83 299 9099 Email: <a href="mailto:charl@nes.co.za">charl@nes.co.za</a></td>
</tr>
<tr>
<td>07 December 2010</td>
<td>Solar Water Heater Project for South Africa</td>
<td>The objective of the proposed project is to implement 300,000 solar water heaters in the South African low income communities, at zero cost for the consumer per SWH</td>
<td>Energy efficiency</td>
<td>3 785 714</td>
<td>10</td>
<td>• Project idea approved by the DNA</td>
<td>Ciska Terblanche African Carbon Trust IT3326/2010 Cell:+27 82 899 5750 Email: <a href="mailto:ciska@cdmafrica.com">ciska@cdmafrica.com</a></td>
</tr>
<tr>
<td>08 December 2010</td>
<td>Richards Bay Wind Farm</td>
<td>The objective of the proposed project is to construct and operate a 40 MW wind farm to generate electricity to be fed into the national high voltage.</td>
<td>Renewable energy</td>
<td>94 500</td>
<td>20</td>
<td>• Project idea approved by the DNA</td>
<td>Mr. Florian Kroeber EAB-Astrum Energy (Pty) Ltd Tel +27 31 3016 444 Cell +27 83 4477 848 Email: <a href="mailto:Florian.kroeber@astrumenergy.com">Florian.kroeber@astrumenergy.com</a> <a href="mailto:Yogis.reddy@astrumenergy.com">Yogis.reddy@astrumenergy.com</a></td>
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<tr>
<td>08 December 2010</td>
<td>Sewerage Treatment; Biogas Extraction For Water Purification, Electricity Generation</td>
<td>The objective of the proposed project is to take sewerage from the municipal and value-add the sewerage for the benefit of the community and environment.</td>
<td>Waste management</td>
<td>10 080</td>
<td>20</td>
<td>• Project idea approved by the DNA</td>
<td>Seketina Mejelo Rebagkone Construction CC Cell:+27 84 631 3146 Email: <a href="mailto:smejelod@yahoo.com">smejelod@yahoo.com</a></td>
</tr>
<tr>
<td>15 December 2010</td>
<td>Langa Energy 100 MW Solar PV Park</td>
<td>The objective of the proposed project is to construct and operate a solar park with installed capacity of about 100 MW of electricity.</td>
<td>Renewable energy</td>
<td>127 000</td>
<td>10</td>
<td>• Project idea approved by DNA</td>
<td>Mr. Patrick Nawa Langa Energy (Pty) Ltd Tel: +27 43 748 5088 Cell: +27 79 302 8277 Email: <a href="mailto:mmnawa@yahoo.co.uk">mmnawa@yahoo.co.uk</a></td>
</tr>
<tr>
<td>15 December 2010</td>
<td>Langa Energy 10 MW Solar PV Park</td>
<td>The objective of the proposed project is to construct and operate a solar park with installed capacity of about 10 MW of electricity.</td>
<td>Renewable energy</td>
<td>127 000</td>
<td>10</td>
<td>• Project idea approved by the DNA</td>
<td>Mr. Patrick Nawa Langa Energy (Pty) Ltd Tel: +27 43 748 5088 Cell: +27 79 302 8277 Email: <a href="mailto:mmnawa@yahoo.co.uk">mmnawa@yahoo.co.uk</a></td>
</tr>
<tr>
<td>18 January 2011</td>
<td>Idwala Industrial Holdings Kiln Replacement Energy Efficiency Project in South Africa</td>
<td>The objective of the project is to reduce the coal consumption used in the production of lime. Production will shift from the old rotary kilns to the new energy efficient shaft kilns.</td>
<td>Industrial Process</td>
<td>6 369 840</td>
<td>10</td>
<td>• Project idea approved by the DNA</td>
<td>Mr. Wayne Brown Idwala Industrial Holdings (Pty) Ltd, South Africa Tel: +27 11 795 4900 Fax: +27 11 795 4923 Email: <a href="mailto:bro@idwala.co.za">bro@idwala.co.za</a></td>
</tr>
<tr>
<td>09 March 2011</td>
<td>Solar Cape</td>
<td>The objective of the project is to implement a 40 MW photovoltaic electrical power plant in Northern Cape Province</td>
<td>Renewable energy</td>
<td>67 500</td>
<td>20</td>
<td>• Project idea approved by the DNA</td>
<td>Mr. Arjen Pen Green Continent Partner GmbH GCP Tel: + 27 21 873 6682 Cell: +27 82 388 6600 Email: <a href="mailto:Arjen.pen@green-continent.com">Arjen.pen@green-continent.com</a> Mr Michael Stoeltzing Fax: +27 86 605 3006 <a href="mailto:Michael.stoeltzing@green-continent.com">Michael.stoeltzing@green-continent.com</a></td>
</tr>
<tr>
<td>11 March 2011</td>
<td>Isivunguvungu Wind Farm</td>
<td>The objective of the project is to implement a wind farm with 6 turbines to generate capacity of 15</td>
<td>Renewable energy</td>
<td>366 000</td>
<td>10</td>
<td>• Project idea approved by the DNA</td>
<td>Mr. Thomas Schaal Isivunguvungu Wind Energy Converter (Pty) Ltd</td>
</tr>
</tbody>
</table>

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<tr>
<th>Date submitted to DNA</th>
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<tbody>
<tr>
<td>05 April 2011</td>
<td>Greenfield CFL Replacement Project (1)</td>
<td>The objective of the proposed project is to improve the energy efficiency of South Africa’s residential lighting stock by distributing Compact Fluorescent Lamps (CFLs) free of charge to all households across South Africa.</td>
<td>Energy efficiency</td>
<td>25,879</td>
<td>10</td>
<td>• Project idea approved by the DNA</td>
<td>Mr. Enoch Liphoto Eskom Holdings Limited Tel: +27 11 800 6995 Cell: +27 72 356 6373 Fax: +27 86 556 4656 Email: <a href="mailto:Enoch.liphoto@eskom.co.za">Enoch.liphoto@eskom.co.za</a></td>
</tr>
<tr>
<td>05 April 2011</td>
<td>Greenfield CFL Replacement Project (2)</td>
<td>The objective of the proposed project is to improve the energy efficiency of South Africa’s residential lighting stock by distributing Compact Fluorescent Lamps (CFLs) free of charge to all households across South Africa. The objective of the propose project is to build an energy efficient (carbon neutral) green rated hospital. That would provide high quality and affordable health care services in Botshabelo and surrounding communities.</td>
<td>Energy efficiency</td>
<td>40,209</td>
<td>10</td>
<td>• Project idea approved by the DNA</td>
<td>Mr. Enoch Liphoto Eskom Holdings Limited Tel: +27 11 800 6995 Cell: +27 72 356 6373 Fax: +27 86 556 4656 Email: <a href="mailto:Enoch.liphoto@eskom.co.za">Enoch.liphoto@eskom.co.za</a></td>
</tr>
<tr>
<td>06 April 2011</td>
<td>Botshabelo Energy Efficient Hospital</td>
<td>The objective of the proposed project is to build an energy efficient (carbon neutral) green rated hospital. That would provide high quality and affordable health care services in Botshabelo and surrounding communities.</td>
<td>Energy efficiency</td>
<td>8,543</td>
<td>21</td>
<td>• Project approved by the DNA</td>
<td>Mr. Samuel Dugbartey Panzacrest CC Tel: +27 11 673 7208 Cell: +27 82 708 2667 Fax:+27 673 7208 Email: <a href="mailto:moldu@iburst.co.za">moldu@iburst.co.za</a></td>
</tr>
<tr>
<td>13 April 2011</td>
<td>JDG Trading (Pty) Ltd</td>
<td>The objective of the proposed project is to reduce the consumption of grid electricity through the installation of solar water geysers. In South Africa, grid electricity is predominately coal based.</td>
<td>Renewable Energy</td>
<td>37,814</td>
<td>28</td>
<td>• Project approved by the DNA</td>
<td>Komani Mfuni JDG Trading (Pty) Ltd Tel: 011 408 0408 Email: <a href="mailto:komanim@jdg.co.za">komanim@jdg.co.za</a></td>
</tr>
<tr>
<td>12 May 2011</td>
<td>Installation of Energy Efficient Cookers in rural areas Northern Cape</td>
<td>The objective of the proposed project is to provide rural communities with energy efficient stoves to avoid the use of burning wood, as such, the project will result in a direct reduction in greenhouse gas emissions.</td>
<td>Energy efficiency</td>
<td>200,000</td>
<td>10</td>
<td>• Project approved by the DNA</td>
<td>Mr. Steven Ireton CARE-Clean Air Renewable Energy Pty Ltd Tel: +27 11 025 2273 Fax: +2786 505 5988 Cell: +27 83 448 3448 Email: <a href="mailto:steve@cdmcare.co.za">steve@cdmcare.co.za</a></td>
</tr>
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</tbody>
</table>
| 13 May 2011           | Installation of Energy Efficient Cookers in rural areas Western Cape | The objective of the proposed project is to provide rural communities with energy efficient stoves to avoid the use of burning wood, as such; the project will result in a direct reduction in greenhouse gas emissions. | Energy efficiency | 200,000 | 10 | • Project idea approved by the DNA | Mr. Steven Ireton  
CARE-Clean Air Renewable Energy Pty Ltd  
Tel: +27 11 025 2273  
Fax: +2786 505 5988  
Cell: +27 83 448 3448  
Email: stevei@cdmcare.co.za |
| 13 May 2011           | Installation of Energy Efficient Cookers in rural areas Gauteng | The objective of the proposed project is to provide rural communities with energy efficient stoves to avoid the use of burning wood, as such; the project will result in a direct reduction in greenhouse gas emissions. | Energy efficiency | 200,000 | 10 | • Project approved by the DNA | Mr. Steven Ireton  
CARE-Clean Air Renewable Energy Pty Ltd  
Tel: +27 11 025 2273  
Fax: +2786 505 5988  
Cell: +27 83 448 3448  
Email: stevei@cdmcare.co.za |
| 13 May 2011           | Installation of Energy Efficient Cookers in rural areas KwaZulu | The objective of the proposed project is to provide rural communities with energy efficient stoves to avoid the use of burning wood, as such; the project will result in a direct reduction in greenhouse gas emissions. | Energy efficiency | 200,000 | 10 | • Project Idea approved by the DNA | Mr. Steven Ireton  
CARE-Clean Air Renewable Energy Pty Ltd  
Tel: +27 11 025 2273  
Fax: +2786 505 5988  
Cell: +27 83 448 3448  
Email: stevei@cdmcare.co.za |
| 13 May 2011           | Installation of Energy Efficient Cookers in rural areas North West | The objective of the proposed project is to provide rural communities with energy efficient stoves to avoid the use of burning wood, as such; the project will result in a direct reduction in greenhouse gas emissions. | Energy efficiency | 200,000 | 10 | • Project idea approved by the DNA | Mr. Steven Ireton  
CARE-Clean Air Renewable Energy Pty Ltd  
Tel: +27 11 025 2273  
Fax: +2786 505 5988  
Cell: +27 83 448 3448  
Email: stevei@cdmcare.co.za |
| 13 May 2011           | Installation of Energy Efficient Cookers in rural areas Limpopo | The objective of the proposed project is to provide rural communities with energy efficient stoves to avoid the use of burning wood, as such; the project will result in a direct reduction in greenhouse gas emissions. | Energy efficiency | 200,000 | 10 | • Project idea approved by the DNA | Mr. Steven Ireton  
CARE-Clean Air Renewable Energy Pty Ltd  
Tel: +27 11 025 2273  
Fax: +2786 505 5988  
Cell: +27 83 448 3448  
Email: stevei@cdmcare.co.za |

13 May 2011
Installation of Energy Efficient Cookers in rural areas Free State
The objective of the proposed project is to provide rural communities with energy efficient stoves to avoid the use of burning wood, as such; the project will result in a direct reduction in greenhouse gas emissions.  
Energy efficiency | 200,000 | 10 | • Project idea approved by the DNA | Mr. Steven Ireton  
CARE-Clean Air Renewable Energy Pty Ltd  
Tel: +27 11 025 2273  
Fax: +2786 505 5988  
Cell: +27 83 448 3448  
Email: stevei@cdmcare.co.za |
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<tr>
<td>13 May 2011</td>
<td>Installation of Energy Efficient Cookers in rural areas Mpumalanga</td>
<td>The objective of the proposed project is to provide rural communities with energy efficient stoves to avoid the use of burning wood, as such; the project will result in a direct reduction in greenhouse gas emissions.</td>
<td>Energy efficiency</td>
<td>200,000</td>
<td>10</td>
<td>Project approved by the DNA</td>
<td>Mr. Steven Ireton, CARE-Clean Air Renewable Energy Pty Ltd Tel: +27 11 025 2273 Fax: +2786 505 5988 Cell: +27 83 448 3448 Email: <a href="mailto:stevei@cdmcare.co.za">stevei@cdmcare.co.za</a></td>
</tr>
<tr>
<td>16 May 2011</td>
<td>Excelsior Wind Energy Facility (Pty) Ltd</td>
<td>The objective of the proposed project is to implement a wind farm with 48 turbines. The project could be implemented in phases whereby phases 1 will have electricity generation capacity of 50 MW and phase 2 will have electricity generation capacity of between 96 MW and 158.4 MW</td>
<td>Renewable Energy</td>
<td>140,000</td>
<td>10</td>
<td>Project idea approved by the DNA</td>
<td>Uri Epstein, Excelsior Wind Energy Facility (Pty) Ltd Tel: +27 11 367 4628 Fax: +27 11 367 4601 Cell: +27 73 298 0162 Email: <a href="mailto:upstein@btewind.com">upstein@btewind.com</a> <a href="http://www.btewind.com">www.btewind.com</a></td>
</tr>
<tr>
<td>26 May 2011</td>
<td>White River Sawmills (Pty) Ltd Biomass Power Generation Project</td>
<td>The proposed project will involve the utilization of woody biomass from two sawmills; Densa and White River to generate electricity. It will have electricity generation capacity of 6MW</td>
<td>Renewable Energy</td>
<td>50,000</td>
<td>7</td>
<td>Project idea approved by the DNA</td>
<td>Mr. Duncan Mackay, Tel: +27 13 751 111 Email: <a href="mailto:dmackay@wrsm.co.za">dmackay@wrsm.co.za</a></td>
</tr>
<tr>
<td>04 July 2011</td>
<td>Waainek Wind Energy Project</td>
<td>The objective of the proposed project is to construct and operate a wind farm with installed capacity of about 24 MW of electricity</td>
<td>Renewable Energy</td>
<td>71,545</td>
<td>10</td>
<td>Project idea approved by the DNA</td>
<td>Mr. Kevin Minkoff (South Africa) InnoWind (Pty) Ltd South Africa Tel: +27 414 872 418 Fax: +27 414 843 038 Cell: +27 72 959 2915 <a href="mailto:kminkoff@innowind.com">kminkoff@innowind.com</a></td>
</tr>
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</tbody>
</table>
| 06 July 2011         | Quick Leap Welkom CDM                             | The objective of the proposed project is to build 6000 energy efficient houses to low income households. | Energy Efficiency | 9,480                           | 6                 | • Project Idea approved by the DNA  | Mr. Jannie Oosthuizen Quick Leap Investment 438 (Pty) Ltd  
Call: +27 82 925 5896  
Fax: +27 86 666 6785  
Email: jannie@quickleapinvestments.co.za |  
| 07 July 2011         | Adelaide Grid Connected 30 MW Wind Farm, South Africa. | The objective of the proposed project is to construct and operate a wind farm with installed capacity of about 30 MW of electricity | Renewable Energy  | 78,840                          | 10                | • Project Idea approved by the DNA  | Mr. Florian Kroeber EAB-Astrum Energy (Pty) Ltd  
Tel: +27 31 301 6444  
Cell: +27 83 447 7848  
Fax: +27 86 698 0188  
Email: Florian.kroeber@astrumenergy.com |  
| 12 July 2011         | Suurplaat Wind Energy Facility                   | The objective of the proposed project is to construct a commercial wind farm and generate electricity. | Renewable Energy  | 80,0000                         | 10                | • Project Idea approved by the DNA  | Sanjith Mungroo  
Tel: +27 11 209 9225  
Fax: +27 1109 9229  
Email: Sanjith.mungroo@gdfsuezmeaa.com |  
| 13 July 2011         | Coega PPC Single Turbine Wind Energy Project      | The objective of the proposed project is to construct a wind farm on PPC property in the Coega industry to generate electricity | Renewable Energy  | 8,830                           | 10                | • Project Idea approved by the DNA  | Mr. Kevin Minkoff (South Africa) InnoWind (Pty) Ltd South Africa  
Tel: +27 414 672 416  
Fax: +27 414 843 038  
Cell: +27 72 959 2915  
Email:kmnikoff@innowind.com |  
| 18 July 2011         | Sterkfontein Grid Connected 80 MW Wind Farm, South Africa | The objective of the proposed project is to construct and operate a wind farm with the installed capacity of about 80 MW. | Renewable Energy  | 1 962 240                       | 10                | • Project Idea approved by the DNA  | Mr. Florian Kroeber EAB-Astrum Energy (Pty) Ltd  
Tel: +27 31 301 6444  
Cell: +27 83 447 7848  
Fax: +27 86 698 0188  
Email: Florian.kroeber@astrumenergy.com |
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<tr>
<td>18 July 2011</td>
<td>Coega Grid Connected 10 MW Solar Park, South Africa.</td>
<td>The objective of the proposed project is to construct and operate a solar park with the installed capacity of about 10 MW.</td>
<td>Renewable Energy</td>
<td>192 272</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Florian Kroebere EAB-Astrum Energy (Pty) Ltd Tel: +27 31 301 6444 Cell: +27 83 447 7848 Fax: +27 86 698 0188 Email: <a href="mailto:Florian.kroeber@astrumenergy.com">Florian.kroeber@astrumenergy.com</a></td>
</tr>
<tr>
<td>21 July 2011</td>
<td>Brand se Baai Grid Connected 40 MW Wind Farm, South Africa</td>
<td>The objective of the proposed project is to construct and operate a wind farm with installed capacity of up 40 MW.</td>
<td>Renewable Energy</td>
<td>98 000</td>
<td>20</td>
<td>• Project Idea approved by the DNA</td>
<td>Ugeshree Thakurpersad Carla Strydom Tel: +27(0)12 307 4350 +27(0)12 307 4333 Fax:+27(0)12 307 5259 +27 (0)12 307 5022 Email: <a href="mailto:Ugeshree.thakurpersad@exxaro.com">Ugeshree.thakurpersad@exxaro.com</a> <a href="mailto:Carla.strydom@exxaro.com">Carla.strydom@exxaro.com</a></td>
</tr>
<tr>
<td>22 July 2011</td>
<td>Potchefstroom Solar Photovoltaic Power Plant</td>
<td>The objective of the project is to install a 10 MW peak solar photovoltaic power plant in Potchefstroom and to supply electricity to the South African Grid</td>
<td>Renewable Energy</td>
<td>18038</td>
<td>25</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr Yusuf Mphahlele Tel: +27(0)12 307 4350+27(0)12 307 4333 Fax:+27(0)12 307 5259 +27 (0)12 307 5022 Email: <a href="mailto:ymspower@gmail.com">ymspower@gmail.com</a></td>
</tr>
<tr>
<td>03 August 2011</td>
<td>Light After Dark in Africa</td>
<td>The objective of the project is to eliminate the greenhouse gas emissions from burning kerosene for light.</td>
<td>Renewable Energy</td>
<td>60 000</td>
<td>28</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr Willem Maartens De Wet Tel: +27(0)11 743 1035 Cell: +27 72 214 9850 Fax: +27 (0)86 675 0374 Email: <a href="mailto:wdeweit@lantic.net">wdeweit@lantic.net</a></td>
</tr>
<tr>
<td>05 August 2011</td>
<td>CFL Sustainability (Replacement) Programme of Activities</td>
<td>The objective of the project is to maintain energy efficiency of S.A’s residential lighting stock achieved by the previous Eskom CFL projects by distributing the Compact Fluorescent Lamps (CFLs) free of charge</td>
<td>Energy Efficiency</td>
<td>880 058</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Philip Cohn Cell: +61 410 411 161 Email: <a href="mailto:phil@rampcarbon.com">phil@rampcarbon.com</a></td>
</tr>
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<tr>
<td>05 August 2011</td>
<td>Riverbank Wind Farm</td>
<td>The objective of the project is to construct and operate a wind farm with installed capacity of about 66MW</td>
<td>Renewable Energy</td>
<td>125 000</td>
<td>25</td>
<td>• Project idea approved by the DNA</td>
<td>Zukijseni Jakavula Tel: +27 21 469 4755 Email: <a href="mailto:zuki@justenergy.org">zuki@justenergy.org</a></td>
</tr>
<tr>
<td>05 August 2011</td>
<td>eThekwini Municipality Residential Hot Water Efficiency Programme</td>
<td>The programme involves the installation of solar water heaters and heat pumps at households and hostels in South Africa.</td>
<td>Energy Efficiency</td>
<td>100 000</td>
<td>28</td>
<td>• Project idea approved by the DNA</td>
<td>Teboho Motshozi Ethekwini Municipality Tel: 031 311 1286 Cell: 073 698 9149 Email: <a href="mailto:motshohteboho@durban.gov.za">motshohteboho@durban.gov.za</a></td>
</tr>
<tr>
<td>15 August 2011</td>
<td>The South African Solar Park Programme</td>
<td>The project activity involves the installation of solar technology power plants in Upington area</td>
<td>Renewable Energy</td>
<td>60 000</td>
<td></td>
<td>• Project idea approved by the DNA</td>
<td>Jeffrey Robile CEF (Pty) Ltd Tel: +27 (0) 10 201 4829 Email: <a href="mailto:jeffreyr@cefgroup.co.za">jeffreyr@cefgroup.co.za</a></td>
</tr>
<tr>
<td>22 August 2011</td>
<td>Renewable Energy for South Africa</td>
<td>The objective of the programme is to build wind and solar power capacity for South Africa</td>
<td>Renewable Energy</td>
<td>198 790</td>
<td>10</td>
<td>• Project idea approved by the DNA</td>
<td>Laura Lahti I Carbon (Pty) Ltd t/a International Carbon Tel: +27 795 423 553 Email: <a href="mailto:laura.lahti@intlcarbon.com">laura.lahti@intlcarbon.com</a></td>
</tr>
<tr>
<td>06 September 2011</td>
<td>Market Coke Cogeneration Project</td>
<td>The objective of the proposed project is to reduce greenhouse gases by utilizing hot coke oven flue gas (waste gas) to generate electricity of 60MW and supply it to the Grootegeluk coal mine</td>
<td>Waste Management</td>
<td>484 393</td>
<td>20</td>
<td>• Project idea approved by the DNA</td>
<td>Sachin Thakurpersad Tel: 012 307 3433 Cell: 083 500 1123 Fax: 012 307 5564 Email: <a href="mailto:sachin.thakurpersad@exxaro.com">sachin.thakurpersad@exxaro.com</a></td>
</tr>
<tr>
<td>09 September 2011</td>
<td>Amakhala Emoyeni Grid Connected 750MW Wind Farm, Phase1,South Africa</td>
<td>The objective of the project is to construct and operate a wind farm to generate electricity feeding it into the national grid.</td>
<td>Energy Renewable</td>
<td>374 000</td>
<td>20</td>
<td>• Project idea approved by the DNA</td>
<td>Joost van Lier Cell: 071 609 2276 Fax: 086 609 2770</td>
</tr>
<tr>
<td>13 September 2011</td>
<td>Grid Connected Wind Power Programme in South Africa</td>
<td>The objective of the project is to install a wind power plant that will generate electricity and result in greenhouse gas emission reduction.</td>
<td>Energy Renewable</td>
<td>459 164</td>
<td>28</td>
<td>• Project idea approved by the DNA</td>
<td>Tilo Stein Work: +49 721 63 23105 Cell: +49 175 29 96961 Fax: +49 721 63 23119 E-mail: <a href="mailto:ti.stein@enbw.com">ti.stein@enbw.com</a></td>
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<tr>
<td>26 September 2011</td>
<td>POA for the implementation of Energy Efficient Vertical Shaft Brick Kilns in South Africa</td>
<td>The objective of the Programme of Activities is to promote and support the uptake of VSBK technology in the small and medium sized brick manufacturing industry in South Africa</td>
<td>Energy Efficiency</td>
<td>100 000</td>
<td>28</td>
<td>• Project Idea approved by the DNA</td>
<td>Hans Hagnauer Tel: 012 346 5102 Fax: 012 346 5106 E-mail: <a href="mailto:h@swisscontact.co.za">h@swisscontact.co.za</a></td>
</tr>
<tr>
<td>26 September 2011</td>
<td>Refrigeration Plant Efficiency Programme of Activities</td>
<td>The objective of the PoA is to install technologies that improves the energy efficiency of refrigeration in commercial buildings.</td>
<td>Energy Efficiency</td>
<td>43 940</td>
<td>28</td>
<td>• Project Idea approved by the DNA</td>
<td>Geoff Sinclair Work: +44 (0)20 3145 6893 E-mail: <a href="mailto:geoff.sinclair@standardbank.com">geoff.sinclair@standardbank.com</a></td>
</tr>
<tr>
<td>03 October 2011</td>
<td>Dorstfontein Piggery Biogas Generation Station</td>
<td>The objective of the project is to establish a dedicated biogas power plant to compliment waste management and prevent the release of greenhouse gases as well as unpleasant odours</td>
<td>Cogeneration</td>
<td>9 048</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Stefan Vermaak Work: 012 348 3676 Cell: 082 826 9223 E-mail: <a href="mailto:stefan@topigssa.co.za">stefan@topigssa.co.za</a> <a href="mailto:info@cae.co.za">info@cae.co.za</a></td>
</tr>
<tr>
<td>03 October 2011</td>
<td>Meisjesvlei Piggery Biogas Generation Station</td>
<td>The objective of the project is to establish a dedicated biogas power plant to compliment waste management and prevent the release of greenhouse gases as well as unpleasant odours</td>
<td>Cogeneration</td>
<td>19 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Jan Faasen Work: 012 802 4000 Cell: 083 650 8313 E-mail: <a href="mailto:jan@waltlandgoed.co.za">jan@waltlandgoed.co.za</a></td>
</tr>
<tr>
<td>05 October 2011</td>
<td>ETA Solar Water Heater Programme in South Africa</td>
<td>The objective of the project is to increase the use of solar water heaters (SWH) in residential and commercial applications throughout S.A. by installing and supplying (SWH)</td>
<td>Renewable Energy</td>
<td>40 000</td>
<td>28</td>
<td>• Project idea approved by the DNA</td>
<td>Jabulani Shabalala Work: 010 201 4726 Cell: 082 566 0522 Fax: 010 201 4900 E-mail: <a href="mailto:jabulani@boefgroup.co.za">jabulani@boefgroup.co.za</a></td>
</tr>
<tr>
<td>05 October 2011</td>
<td>Fort Hare Piggery Biogas Generation Station</td>
<td>The objective of the proposed project is to establish a dedicated biogas power plant to compliment waste management and prevent the release of GHG as well as unpleasant odours</td>
<td>Cogeneration</td>
<td>10 500</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Dr Andrew Taylor Work: 021 577 3413 Cell: 082 775 1001 Fax: 021 577 3414 E-mail: <a href="mailto:andrewtaylor@cse.co.za">andrewtaylor@cse.co.za</a></td>
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<tr>
<td>13 October 2011</td>
<td>Droogfontein Solar PV Project</td>
<td>The objective of the project is to build, own and operate a 50MW grid connected, Solar PV facility at Droogfontein, Northern Cape.</td>
<td>Renewable energy</td>
<td>96 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Ms Linda Thompson Tel: 011 781 6077 Fax: 086 620 1937 Email: <a href="mailto:Linda.Thompson@mainstreamamrp.com">Linda.Thompson@mainstreamamrp.com</a></td>
</tr>
<tr>
<td>13 October 2011</td>
<td>Jeffreys Bay Wind Project</td>
<td>The objective of the project is to utilise wind turbines with a combined generation capacity of a maximum of 160 MW and will include Kouga Wind Project of about 16 MW.</td>
<td>Renewable energy</td>
<td>513 721</td>
<td>20</td>
<td>• Project Idea approved by the DNA</td>
<td>David Chown Tel: 021 657 4040 Fax: 0866 201 937 Email: <a href="mailto:Linda.Thompson@mainstreamamrp.com">Linda.Thompson@mainstreamamrp.com</a></td>
</tr>
<tr>
<td>13 October 2011</td>
<td>De Aar Solar PVP project</td>
<td>The aim of the project is to build, own and operate a 50MW, grid connected, Solar PV facility near De Aar, Northern Cape.</td>
<td>Renewable energy</td>
<td>96 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Ms Linda Thompson Tel: 011 781 6077 Fax: 086 620 1937 Email: <a href="mailto:Linda.Thompson@mainstreamamrp.com">Linda.Thompson@mainstreamamrp.com</a></td>
</tr>
<tr>
<td>13 October 2011</td>
<td>Loeriesfontein PV Project</td>
<td>The aim of the project is to build, own and operate a 50MW, grid connected, Solar PV facility near Loeriesfontein, Northern Cape.</td>
<td>Renewable energy</td>
<td>96 000</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Ms Linda Thompson Tel: 011 781 6077 Fax: 086 620 1937 Email: <a href="mailto:Linda.Thompson@mainstreamamrp.com">Linda.Thompson@mainstreamamrp.com</a></td>
</tr>
<tr>
<td>20 October 2011</td>
<td>Hydro PoA for Southern Africa</td>
<td>The goal of the PoA is to promote and support small scale, grid connected, hydro power in Southern Africa through a variety of Power Purchase Agreement.</td>
<td>Energy Efficiency</td>
<td>15 000</td>
<td>28</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Johan van den Berg Cell: 082 925 5680 Fax: 086 763 0017 Email: <a href="mailto:webmaster@cdmafrica.com">webmaster@cdmafrica.com</a></td>
</tr>
<tr>
<td>20 October 2011</td>
<td>Bio 2 Watt Bronkhorstspruit Biogas Project</td>
<td>The objective of the project is to generate electricity using biogas produced from beef cattle manure, chicken litter and waste from food industry</td>
<td>Waste Management</td>
<td>113 515</td>
<td>21</td>
<td>• Project Idea approved by the DNA</td>
<td>Sean Thomas Work: 011 067 4747 Cell: 079 496 6725</td>
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| 28 October 2011       | The Capture, Destruction and Utilisation of Mine Methane at the Beatrix West Shaft in South Africa. | The aim of the project is to capture and utilise methane from the West Shaft of the Beatrix Gold Mine to be flared and generate electricity. Methane recovery and flaring. | tCO2e Annual Emission Reductions | 161 546                           | 10                | • Project Idea approved by the DNA    | Mr. Dirk Van Greuning  
  Work: 057 733 8526  
  Fax: 057 733 8545  
  Email: dirk.vangreuning@goldfields.co.za |
| 01 December 2011      | Dundee Biogas Power                                                            | The aim of the proposed project is to implement a waste to energy project, converting animal manure into renewable energy through anaerobic biogas digestion. Waste Management/Biogas. | Waste Management/Biogas | 12 000                           | 20                | • Project Idea approved by the DNA    | Anton Ferreira  
  Work: 034-212-3716  
  Fax: 034-218-1188  
  Email: aft@telkomsa.net |
| 05 December 2011      | Oyster Bay Grid Connected 140 MW Wind Farm, South Africa                        | The objective of the proposed project is to construct and operate wind farm. It will have electricity generation capacity of up to 140 MW and will be supplied to South Africa’s national grid. Renewable Energy. | Renewable Energy          | 484 673                           | 10                | • Project Idea approved by the DNA    | Mr. Duncan Ayling  
  RES Southern Africa (Pty) Ltd (RES)  
  Tel: +27 (0)21 403 6385  
  E-mail: Duncan.Ayling@res-sa.com |
| 05 December 2011      | Waste Heat Recovery for Electricity Generation at Ulco cement plant, South Africa | The objective of the proposed project is to recover heat of waste gases from the clinker production process for power generation at Ulco cement plant. It involves the construction of waste heat recovery power plant with the installed power capacity of 3.2 MW. Waste Management/Cogeneration. | Waste Management/Cogeneration | 18 936                           | 10                | • Project Idea approved by the DNA    | Mr Edward Volek  
  Afrisam (South Africa) (Pty) Ltd  
  Tel: 011 767 7230  
  E-mail: Edward.Volek@za.afrisam.com |
| 15 December 2011      | Walker Bay Grid Connected 18 MW Wind Farm, South Africa                         | The aim of the proposed project is to supply clean electricity to the grid of the Republic of South Africa. The project involves the construction and operation of a wind farm with a total installed capacity of approximately 18 MW. The complete farm will consist of up to 11 wind turbine generators Renewable Energy. | Renewable Energy          | 54 525                           | 7                 | • Project Idea approved by the DNA    | Duncan Ayling  
  RES Southern Africa (Pty) Ltd (RES)  
  Tel: +27 (0)21 403 6385  
  E-mail: Duncan.Ayling@res-sa.com |
<p>| 01 January 2012       | ACP Thermal Harvesting Project                                                  | The objective of the proposed project is to recover heat of waste gases from the clinker production process for power generation at Ulco cement plant. It involves the construction of waste heat recovery power plant with the installed power capacity of 3.2 MW. | Cogeneration             | 20 850                           | 21                | • Project Idea approved               | Jacques Malan |</p>
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<tr>
<th>Date submitted to DNA</th>
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<th>Project Description</th>
<th>Project Type</th>
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<th>Project Life-span</th>
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<th>Project Developer /Owner</th>
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<tr>
<td>01 February 2012</td>
<td>Solar Programme for South Africa CPA 1, South Africa</td>
<td>The objective of the proposed project is to install and operate concentrated solar power technology with installed capacity of 75 MW.</td>
<td>Renewable Energy</td>
<td>289 367</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Chris Carnegie Group Five (Pty) Ltd</td>
</tr>
<tr>
<td>05 March 2012</td>
<td>YMS Resources solar photovoltaic programme of activities</td>
<td>The objective is to generate electricity using solar photovoltaic</td>
<td>Renewable Energy</td>
<td>17 691</td>
<td>7</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr. Yusuf Mphahlele YMS Resource 011 805 6982 <a href="mailto:ymspower@gmail.com">ymspower@gmail.com</a></td>
</tr>
<tr>
<td>27 March 2012</td>
<td>De Beers Wind farm</td>
<td>The objective is to install wind farm to generate electricity</td>
<td>Renewable Energy</td>
<td>17 546</td>
<td>10</td>
<td>• Project Idea approved by the DNA</td>
<td>Mr Claire Olmstead Just Palmtree Power (Pty) Ltd 012 365 8756 <a href="mailto:colmstead@venture-sa.co.za">colmstead@venture-sa.co.za</a></td>
</tr>
<tr>
<td>15 May 2012</td>
<td>SAGIT Energy Ventures (Pty) Ltd – Langhoogte project</td>
<td>The objective of the proposed project is to generate electricity using wind technology. It will have electricity generation capacity of 120MW and will be supplied to the national grid</td>
<td>Renewable Energy</td>
<td>329 773</td>
<td>20</td>
<td>• Project Idea approved by the DNA</td>
<td>Sagit Energy Ventures (Pty) Ltd Mr. Mich Niewoudt Tel: 021 683 3568 Cell: 083 253 2469 <a href="mailto:mich@sagitenergy.co.za">mich@sagitenergy.co.za</a></td>
</tr>
<tr>
<td>15 May 2012</td>
<td>SAGIT Energy Ventures (Pty) Ltd – Wolseley project</td>
<td>The objective of the proposed project is to generate electricity using wind technology. It will have electricity generation capacity of 90MW and will be supplied to the national grid</td>
<td>Renewable Energy</td>
<td>198 302</td>
<td>20</td>
<td>• Project Idea Approved by the DNA</td>
<td>Sagit Energy Ventures (Pty) Ltd Mr. Mich Niewoudt Tel: 021 683 3568 Cell: 083 253 2469 <a href="mailto:mich@sagitenergy.co.za">mich@sagitenergy.co.za</a></td>
</tr>
<tr>
<td>20 June 2012</td>
<td>EEM/EITI-EGS Waste to Energy Project</td>
<td>The objective of the proposed project is to build a plant that will mitigate Methane production of Hydrogen fuel and Electrical Power, consists of a leachate remediation, waste</td>
<td>Waste Management</td>
<td>300 000</td>
<td>20</td>
<td>• Project Idea approved by the DNA</td>
<td>EITI Energy Modalities (EEM) and EGS Energygreen Solutions Inc Duncan Cleworth, President Telephone 1(647) 785 1600 Email:<a href="mailto:Duncan@eco-eight.com">Duncan@eco-eight.com</a></td>
</tr>
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<td>17 August 2012</td>
<td>Green Forestation Initiative</td>
<td>The objective of the project is to reduce green house gas emission through carbon sequestration. The project involves reforestation/afforestation activities in the Vhembe District, Limpopo Province.</td>
<td>Afforestation</td>
<td>16 500</td>
<td>25</td>
<td>• Project Idea approved by the DNA.</td>
<td>Panzacrest CC, Samuel Dugbarley&lt;br&gt;Work: 011 673 7208&lt;br&gt;Cell: 082 708 2667&lt;br&gt;Fax: 011 673 7208&lt;br&gt;Email: <a href="mailto:sam@panzacrest.co.za">sam@panzacrest.co.za</a></td>
</tr>
<tr>
<td>11 April 2013</td>
<td>EnergyDrive in respect of EnergyDrive: Installation of Intelligent Control Systems</td>
<td>The objective of the proposed project is to retrofit existing equipment in industrial applications with intelligence connected to a Variable Speed Drive (VSD) system. This will improve the energy consumption levels of various components in industrial processes.</td>
<td>Energy Efficient</td>
<td>36263.7</td>
<td>10</td>
<td>• Project Idea approved by the DNA.</td>
<td>Cotton Consulting (Pty) Ltd trading as EnergyDrive&lt;br&gt;Mr. Peter Korck</td>
</tr>
<tr>
<td>29 April 2013</td>
<td>Bellbank Concentrated Solar Farm</td>
<td>The objective of the proposed project is to utilise Concentrated Solar Power (CSP) technology to generate renewable energy which will be connected to the national electricity grid.</td>
<td>Renewable Energy</td>
<td>225 458</td>
<td>21</td>
<td>• Project Idea approved by the DNA.</td>
<td>Panzacrest CC, Samuel Dugbarley&lt;br&gt;Work: 011 673 7208&lt;br&gt;Cell: 082 708 2667&lt;br&gt;Fax: 011 673 7208&lt;br&gt;Email: <a href="mailto:sam@panzacrest.co.za">sam@panzacrest.co.za</a></td>
</tr>
<tr>
<td>23 May 2013</td>
<td>5 Star Stoves</td>
<td>The objective of the PoA is to utilise biomass stoves for cooking and heating as an alternative to paraffin, coal and electricity stoves.</td>
<td>Renewable Energy</td>
<td>5000</td>
<td>21</td>
<td>• Project Idea approved by the DNA.</td>
<td>5 Star Stoves Pty Ltd&lt;br&gt;Mr Willem Malherbe</td>
</tr>
<tr>
<td>09 Sep 2013</td>
<td>Bapele Wetevreden Grid-Connected 75 MW (Scalable to 100 MW) Solar PV Facility</td>
<td>The objective of the proposed project is to construct and operate a Solar Park with a maximum generating capacity of 100 MW. The park will be equipped with a cluster of Photovoltaic (PV) panel arrays. The aim of the project is to supply clean electricity to the national grid.</td>
<td>Renewable Energy</td>
<td>190 407</td>
<td>7</td>
<td>• Issued with the Letter of No Objection</td>
<td>Bapele Green Power Resources CC&lt;br&gt;Mr Johannes Ntsobe</td>
</tr>
<tr>
<td>Date submitted to DNA</td>
<td>Project Title</td>
<td>Project Description</td>
<td>Project Type</td>
<td>tCO2e Annual Emission Reductions</td>
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</table>
| 12 Sep 2013          | The Nutri Project | The objective of the proposed project is to use biogas created from the chicken manure to generate electricity for farm use. The aim of the project is to supply clean electricity to the chicken farm and national grid. | Waste Management | 24 000 | 7 | • Project Idea approved by the DNA | Panzacrest CC  
Samuel Dugbartey  
Work: 011 673 7208  
Cell: 082 708 2667  
Fax: 011 673 7208  
Email: sam@panzacrest.co.za |
| 28 July 2014         | Bloemfontein Cogeneration Hospital | The objective of the proposed project is to build energy efficient (carbon neutral) green rated hospital facility by incorporating all aspect of energy efficiency and renewable energy features with cogeneration technology that would provide high quality health care service. | Cogeneration | 24 000 | 7 | • Project Idea approved by the DNA | Panzacrest CC  
Samuel Dugbartey  
Work: 011 673 7208  
Cell: 082 708 2667  
Fax: 011 673 7208  
Email: sam@panzacrest.co.za |
| 02 June 2014         | Thando Cogeneration Private Hospital | The objective of the proposed project is to build energy efficient (carbon neutral) green rated hospital facility by incorporating all aspect of energy efficiency and renewable energy features with cogeneration technology that would provide high quality health care service.  
The objective of the proposed Programme of Activities is to use the biogas generated from pigs and cow manure to generated electricity. The manure from the piggery and the cowshed would be mixed with energy crops to generate clean green energy. | Cogeneration | 24 000 | 7 | • Project Idea approved by the DNA | High Profile Supplier and Projects (Pty) Ltd  
Samuel Dugbartey - 0827082667  
Dr, Ramashivula Mashudu – 0828258855  
Dr, M. Phathela - -0827320402  
sam@panzacrest.co.za  
shushu@lantic.net  
matodonald@yahoo.com |
| 12 Aug 2014          | Xhayimpi Energy Recovery Centre | The objective of the proposed Programme of Activities is to use the biogas generated from pigs and cow manure to generated electricity. The manure from the piggery and the cowshed would be mixed with energy crops to generate clean green energy. | Biogas | 55 000 | 7 | • Project Idea approved by the DNA | Innovative Strategic Projects Group (Pty) Ltd  
Sam Dugbartey  
Work:011 0516322  
Cell:0827082667 |
Mr Graham Jones |
<table>
<thead>
<tr>
<th>Date submitted to DNA</th>
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<th>Project Description</th>
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<th>Project Life-span</th>
<th>Project Status</th>
<th>Project Developer /Owner</th>
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</thead>
</table>
| 10 Dec 2014          | Installation of Solar Home Systems in Rural North West, Free State & Northern Cape Provinces, South Africa | residential areas. The installed solar water heating will replace electricity produced by the national grid (currently mostly produced from fossil fuels) and will result in a quantifiable reduction of greenhouse gas emissions. The main objective of the overall SHS program in South Africa is to rapidly deploy SHS across the country’s unelectrified rural communities. | Renewable Energy           | 33 401                          | 10                            | Project idea approved by the DNA                                                                 | Tel: 082 770 5297  
e-mail: graham@solplus.co.za  
web: www.solplus.co.za                                                                 |
| 10 Dec 2014          | LED Lighting Efficiency Programme South Africa | The program objective is to promote development of a commercial market for implementing and financing private & public-lighting efficiency projects.                                                                 | Energy Efficiency          | 38 217                          | 10                            | Project idea approved by the DNA                                                                 | Tel: 082 770 5297  
e-mail: graham@solplus.co.za  
web: www.solplus.co.za                                                                 |
| 23 Dec 2014          | Promoting the Dissemination and Utilisation of Solar Cooker Technology in Rural Limpopo Province, South Africa | The objective of this project is to promote cleaner, more efficient solar cookers to poor rural households in Limpopo Province.                                                                                     | Renewable Energy           | 143 762                         | 10                            | Project idea approved by the DNA                                                                 | Tel: 082 770 5297  
e-mail: graham@solplus.co.za  
web: www.solplus.co.za                                                                 |
| 23 Dec 2014          | Promotion of the Dissemination and Utilisation of Solar Cooker Technology in Rural North West Province, South Africa | The objective of the proposed Programme of Activities is to promote cleaner and more efficient solar cookers to poor rural households and reduce indoor air pollution while increasing economic benefits in North West Province | Renewable Energy           | 143 762                         | 10                            | Project idea under review by the DNA                                                                 | Tel: 082 770 5297  
e-mail: graham@solplus.co.za  
web: www.solplus.co.za                                                                 |
| 23 Dec 2014          | Promoting the Dissemination and Utilisation of Solar Cooker Technology in Rural Mpumalanga | The objective of this project is to promote cleaner, more efficient solar cookers to poor rural households and reduce indoor air pollution while increasing economic benefits in North West Province | Renewable Energy           | 143 762                         | 10                            | Project idea approved by the DNA                                                                 | Tel: 082 770 5297  
e-mail: graham@solplus.co.za  
web: www.solplus.co.za                                                                 |
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<tr>
<td>23 Dec 2014</td>
<td>Promotion of the Dissemination and Utilisation of Solar Cooker Technology in Rural Eastern Cape Province, South Africa,</td>
<td>The objective of the proposed Programme of Activities is to promote cleaner and more efficient solar cookers to poor rural households and reduce indoor air pollution while increasing economic benefits in Eastern Cape Province. The objective of the proposed project is to utilise sheep manure and waste from the food industry into biogas. The biogas will then be used to generate electricity which will be fed into the national grid.</td>
<td>Renewable Energy</td>
<td>143 762</td>
<td>10</td>
<td>• Project approved by the DNA</td>
<td>Flaviotouch Pty. Ltd. T/A Congretrix Energy Tendani Madonndo Work: +27 12 259 3899 Cell: +27 84 925 6710 <a href="mailto:tendani@congretrixenergy.co.za">tendani@congretrixenergy.co.za</a></td>
</tr>
<tr>
<td>10 Feb 2015</td>
<td>iSPG Middleburg Biogas Project</td>
<td></td>
<td>Renewable energy</td>
<td>16 216</td>
<td>21</td>
<td>• Approved by the DNA</td>
<td>Anele Mtshemla Work: +27 87 702 3939 Cell: +27 72 908 7543 <a href="mailto:anele@ispg.co.za">anele@ispg.co.za</a> <a href="mailto:anele@betaadvisory.co.za">anele@betaadvisory.co.za</a></td>
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<tr>
<td>11 Mar 2015</td>
<td>Tshwane Waste To Energy Project</td>
<td>The objective is to generate electricity from municipal waste.</td>
<td>Waste Management</td>
<td>TBA</td>
<td>n/a</td>
<td>• Approved by the DNA</td>
<td>Musset Kupakuwana Dzagon Strategic Solutions (Pty) Cell:+27780075747</td>
</tr>
<tr>
<td>13 Jul 2015</td>
<td>Jacobsdal Biogas Plant</td>
<td>The objective of the proposed project is to collect and utilise the merino sheep manure and waste from food industry into biogas.</td>
<td>Waste Management</td>
<td>16 216</td>
<td>21</td>
<td>• Approved by the DNA</td>
<td>Anele Mtshemla Work: +27 87 702 3939 Cell: +27 72 908 7543 <a href="mailto:anele@ispg.co.za">anele@ispg.co.za</a> <a href="mailto:anele@betaadvisory.co.za">anele@betaadvisory.co.za</a></td>
</tr>
<tr>
<td>04 Aug 2015</td>
<td>Carnarvon Estate Biogas Project</td>
<td>The objective of the proposed project is to collect and utilise the merino sheep manure and waste from food industry into biogas to generate electricity.</td>
<td>Waste Management</td>
<td>16 216</td>
<td>21</td>
<td>• Approved by the DNA</td>
<td>Beta Advisory Anele Mtshemla (m) +27 72 908 7543 Fax: +27 86 669 1721 E-mail: <a href="mailto:anele@betaadvisory.co.za">anele@betaadvisory.co.za</a></td>
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Figure 1: Projects distribution: Approved and pipeline.
Figure 2: Projects distribution, registered projects only
Figure 3: Projects received per year (PINs & PDDs)
### Projects Statistics

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<td>Cogeneration</td>
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<td>Industrial process</td>
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<td>Fuel switch</td>
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<td>Methane recovery and flaring</td>
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<td>Nitrous Oxide</td>
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<td>Waste management</td>
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<td>Transport</td>
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<td>Afforestation</td>
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### Glossary of Terms

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<th>Acronym</th>
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<tr>
<td>CDM</td>
<td>Clean Development Mechanism</td>
</tr>
<tr>
<td>DNA</td>
<td>Designated National Authority</td>
</tr>
<tr>
<td>EB</td>
<td>CDM Executive Board</td>
</tr>
<tr>
<td>LoA</td>
<td>Letter of Approval issued by DNA</td>
</tr>
<tr>
<td>LoNO</td>
<td>Letter of No Objection issued by DNA</td>
</tr>
<tr>
<td>PDD</td>
<td>Project Design Document</td>
</tr>
<tr>
<td>PIN</td>
<td>Project Idea Note</td>
</tr>
<tr>
<td>EE</td>
<td>Energy Efficiency</td>
</tr>
<tr>
<td>RE</td>
<td>Renewable Energy</td>
</tr>
<tr>
<td>DNA Approval</td>
<td>PDD/PIN submitted to DNA &amp; issued with LoA/LoNO</td>
</tr>
<tr>
<td>DNA Approval Pending</td>
<td>PDD/PIN submitted to DNA &amp; still to be reviewed</td>
</tr>
<tr>
<td>Project Rejection</td>
<td>PDD/PIN submitted but LoA/LoNO not issued</td>
</tr>
<tr>
<td>Project Withdrawn</td>
<td>PDD/PIN submitted but withdrawn by project owner</td>
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<tr>
<td>Project Registered</td>
<td>PDD registered by the CDM Executive Board as CDM project</td>
</tr>
<tr>
<td>Registration Pending</td>
<td>PDD review by the CDM Executive Board requested</td>
</tr>
<tr>
<td>EB Process</td>
<td>Validation Stage/Corrections Requested</td>
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