UNIDO Energy Programme

Mark DRAECK
Industrial Development Officer
Energy Department
m.draeck@unido.org
UNIDO’s Mandate:
Inclusive & Sustainable Industrial Development (ISID)

Thematic Areas:
- Creating shared prosperity
- Advancing economic competitiveness
- Safeguarding the environment

Achieving equitable & sustainable social, economic and environmental growth while mainstreaming women and youth.
UNIDO Energy Portfolio

- **120** projects
- **280 mil** US$
- **1.6 billion** US$ in planned co-financing
- **60** countries
UNIDO Energy Programme
THREE STRATEGIC PILLARS

Thematic focus
- Industrial Energy Efficiency
  - EE Policy for Industry
  - EnMS-ISO 50001 and System Optimization
  - SE4ALL IEE Accelerator
  - GEF, GCF and Multi / Bilateral Funds

- Renewable Energy
  - RE Policy for Access and Industry
  - RE quality and standards
  - REEEP, REN 21, IRENA
  - GEF, GCF and Multi / Bilateral Funds

- Climate Policy and Networks
  - Integrated Climate Smart Policies
  - EE & RE Standards at the Regional and National Level
  - Global Network of Regional Centres, CTCN, VEF
  - Austrian, Japan, Spain and GEF
UNIDO Selected Industrial Renewable Energy Projects

Ukraine: EE & RE in agro-food sector

- Strengthen POLICY framework
- TECHNOLOGY demonstration:
  - Advanced biodiesel production unit
  - Heat-exchangers and EMS in industrial bakery
  - Steam turbine in paper enterprise
  - Biogas system in cattle farm
  - 1000m² solar thermal system in milk-processing
  - Biomass boilers in wood-processing plant
- CAPACITY building
- SUSTAINABILITY
Global Cleantech Innovation Programme (GCIP) for SMEs
Innovation Ecosystem for SMEs
Global Cleantech Innovation Programme (GCIP)

Policy and Regulations
A Cleantech Innovation Index for SMEs

Mentoring and Training
Business Clinics
Investor Connect

Fostering an Innovative Cleantech Ecosystem

Linking Innovative Enterprises to Private Sector Financing and CSR Initiatives

Building the National Institutional Capacity
GCIP country coverage

- Morocco
- South Africa
- Turkey
- India
- Pakistan
- Thailand
- Armenia
- Malaysia
<table>
<thead>
<tr>
<th>#</th>
<th>Category</th>
<th>Description</th>
<th>GCIP -country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Energy Efficiency</td>
<td>Energy Recovery for the automotive sector</td>
<td>South Africa</td>
</tr>
<tr>
<td>2</td>
<td>EE</td>
<td>Retrofitted diesel/natural gas fuel system</td>
<td>South Africa</td>
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<tr>
<td>3</td>
<td>Renewable Energy</td>
<td>Hybrid off-grid hot water solution based on solar PV with automatic generator back-up</td>
<td>South Africa</td>
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<tr>
<td>4</td>
<td>Waste-to-Energy</td>
<td>Biomass fired cook stoves run by palletized dry agriculture waste</td>
<td>Pakistan</td>
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<tr>
<td>5</td>
<td>Green building</td>
<td>Sustainable construction material</td>
<td>Pakistan</td>
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<tr>
<td>6</td>
<td>EE, Water services</td>
<td>Provision of clean and desinfected water</td>
<td>Pakistan</td>
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<tr>
<td>7</td>
<td>RE</td>
<td>Efficient solar powered water pump</td>
<td>Pakistan</td>
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<tr>
<td>8</td>
<td>EE</td>
<td>Highly dispersible silica, activated carbon</td>
<td>India</td>
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<td>9</td>
<td>RE</td>
<td>Geothermal cooling system</td>
<td>India</td>
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<tr>
<td>10</td>
<td>RE</td>
<td>Solar based heating and cooling systems</td>
<td>India</td>
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<tr>
<td>11</td>
<td>RE</td>
<td>Photovoltaic and semiconductor devices</td>
<td>Armenia</td>
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<tr>
<td>12</td>
<td>Water efficiency</td>
<td>Biodegradable water absorbent applied in agriculture</td>
<td>Armenia</td>
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<tr>
<td>13</td>
<td>Waste-to-Energy</td>
<td>Charcoal produced from olive (prina) residues</td>
<td>Turkey</td>
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<tr>
<td>14</td>
<td>RE</td>
<td>Small scale wind turbines</td>
<td>Turkey</td>
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<td></td>
<td>GHG emission Savings</td>
<td>Growth of Cleantech Industry</td>
<td>Created Jobs</td>
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<td><strong>2017</strong></td>
<td>624 ktons of CO₂</td>
<td>US $23 M of generated revenue</td>
<td>329 new jobs in Cleantech</td>
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<td><strong>by 2020</strong></td>
<td>4.8 Mtons of CO₂</td>
<td>US $263 M of generated revenue</td>
<td>1,219 new jobs in Cleantech</td>
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</tbody>
</table>
GCIP Ukraine

- Project funded by Global Environment Facility (GEF)
- Approx. 1.5 MUS$ + cofinancing
- Preparatory phase ongoing to
  - consult with key stakeholders
  - identify cofinancing sources
  - knowledge partners
- Actual project expected to start by end 2018
Vienna Energy Forum 2018

Theme: SDG7

• 14-15 May 2018 in Vienna International Centre and at Hofburg Palace
• Leveraging new partnerships for synergies
Thank You

Mark DRAECK
m.draeck@unido.org

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