## Business Case for Industrial Energy Efficiency – The Multiple Benefits

<table>
<thead>
<tr>
<th>Product Benefits</th>
<th>Operation and Maintenance Benefits</th>
<th>Working Environment Benefits</th>
<th>Environmental Benefits</th>
<th>Other Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower production costs — energy, labour, water, raw materials, transport, storage etc.</td>
<td>Enhanced asset value</td>
<td>Reduced process / plant downtime</td>
<td>Deferred capital costs towards replacing plant and machinery</td>
<td>Decreased liability / risks</td>
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<td>Reduced process / plant downtime</td>
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<tr>
<td>Extended life-time for plant and machinery</td>
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<td>Increased worker safety and well-being</td>
<td>Retain and attract skilled staff</td>
<td>New income streams; increased production capacity</td>
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<td>Decreased health insurance costs and medical expenses</td>
<td>Improved labour productivity</td>
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<td>Reduced health insurance costs and medical expenses</td>
<td>Reduced noise levels</td>
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<td>Improved thermal comfort, lighting and ventilation</td>
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<td>Reduced hazardous waste, dust etc.</td>
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<td>Reduced health insurance costs and medical expenses</td>
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<td>Reduced CO, CO₂, NOx, SOx emissions</td>
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Key Energy Intensive Industrial Sub Sectors Eligible for Financing under This Window

- RMG
- Textile
- Chemicals
- Steel re-rolling
- Cement
- Brick
- Food processing, cold storage
- Pulp & paper
- Glass
- Sanitary & ceramics
- Plastics
- Engineering
- Telecommunication
- Sugar
- Petroleum refinery

Examples of Energy Efficient Technologies Eligible for Financing under This Window

- Waste heat recovery, Heat exchangers
- Cogeneration, tri-generation
- Absorption chiller utilising wasted heat
- Heat pump
- Once through steam boiler
- Automatic combustion control system
- Centrifugal air compressors, screw air compressors with variable speed drives
- Pumps, fans and blowers with VFD control
- LED lighting and control systems
- IE2, IE3 and PM motors
- Centrifugal chillers
- Variable refrigerant flow and high "COP" air conditioners
About IDCOL

Infrastructure Development Company Limited (IDCOL), a government owned NBFI, structures and finances infrastructure projects, energy efficient equipment and renewable energy initiatives. The company is the market leader in private sector energy and infrastructure financing in Bangladesh.

Milestones

- Financed 11% of the National Power Generation Through Investment of BDT 29 billion for Installation of more than 1965 MW of Power Plants
- Illuminated 12% of the total population through installation over 5 million Solar Home Systems
- Financed BDT 6.16 billion for energy efficient equipment in garments, cement, electrical equity, manufacturing, auto brick etc.
- USD 122 million Investment in Telecommunication Sector
- Pioneer in Private Sector Port Financing
- Approved financing of over 1,429 Solar Irrigation Pumps of which 1,186 pumps are already in operation
- Financed 27 solar Mini Grid Projects
- Financed over 1.7 million Improved Cook Stoves
- Financed over 50,000 Domestic Biogas Plants
- Financed 8 Rooftop Solar Projects with a cumulative capacity of 5 MW
General Financing Terms for Term Loans under Energy Efficiency Financing

- Loan amount: up to 100% of equipment / machinery cost
- Tenure ~ Maximum 8 years
- Interest rate ~ 5 ~ 10%
- The Industrial and Energy Efficiency Finance (IEEF) unit within IDCOL is committed to provide customised financing solutions to the private sector motivated to invest in energy efficient technological innovations falling under eligible industrial sub sectors.

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ENERGY EFFICIENCY FINANCING

Infrastructure Development Company Limited (IDCOL)