



## **OMAN GREEN AWARDS**

### **NOMINATION FORM**

#### **Instructions for completing the nomination form:**

1. Please use a separate Nomination Form for each award category.
2. You may attach extra paper as necessary
3. In the event you attach photographs, Statistical Tables and Reports to support your nomination they should be clearly labeled and marked
4. Please note that it is mandatory to provide two independent referees for the Nomination to be considered.

#### **Organization Details:**

*Organization Name* Petroleum Development Oman

*Organization Type (Business/NGO/Gov)* oil and gas company

*Website* [www.pdo.co.om](http://www.pdo.co.om)

*Location /Address* PO Box 81 100 Muscat

**Award Category** Green Footprint Award

#### **Project Details:**

*Project Title* Qarn Alam Cogeneration

*Location of Project* Qarn Alam

*One Line Description of Project* Using cogeneration to cut carbon footprint

*Objectives\_green\_project:* For large corporate incumbents in the oil industry, making a positive contribution to the environment does not always come naturally. A major change in the company's DNA is required not to mention a commitment by management and shareholders alike to put the planet before financial performance. But changing its corporate DNA is precisely what Petroleum Development Oman (PDO) has done. And the result has been a radical re-think of the way it consumes energy and how it can mitigate the effect of its operations. PDO has been producing oil and gas for over 40 years and operates over 120 oilfields throughout Oman. In order to maintain oil production – and secure Oman's income for future generations – PDO consumes a massive amount of electric power. To put this into perspective, PDO's operations use as much electricity as the whole of greater Muscat (population 1 million). Much of this power is used for to pump water into oilfields to maintain reservoir pressure and will soon be used in enhanced oil recovery

*Environmental achievements:* Three power plants linked to cogeneration units currently under construction will save nearly 1 million tons of CO<sub>2</sub>/yr compared to the traditional direct-firing approaches. A further network of linked thermal EOR projects and power stations will be constructed over the coming years. These projects will help PDO realize a total emissions savings of over 4 million tons of CO<sub>2</sub>/yr within five years. Further power station and EOR expansions will yield savings totalling well over 6 million tons CO<sub>2</sub>/yr within the decade. This re-think has not come cheaply. The heat recovery units typically add about 30% to the cost of the power stations. As well, the power must be transported to the demand centres via an overhead power line network that has required expansion and reinforcement.

*Achieve\_longterm:* PDO has shown it is committed to finding environmentally-friendly solutions to its strategic investments. It has realised that in addition to protecting the planet, there is an eventual payback in terms of the reduced fuel requirement. PDO recognizes that what makes good environmental sense also makes good business sense.

### **Effectiveness**

*What were your goals?*

*How have you measured your success?*

### **Innovation & Creativity**

*How were innovative methods, strategies or ideas applied?*

### **Impact**

*How has the project/initiative/work motivated others to contribute to a greener Oman*

### **Originality and Leadership**

How has the nominee demonstrated vision, foresight and persistence?

### **Continuity & Sustainability**

How sustainable is the initiative carried out?

Explain how it will be effective in the long term