

# Power Generation Industry



## Removable Insulation Blankets

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## Waste Gas Recovery Plant

### 4 Superior 16 cylinder engines

Ambient heat generated by engines and exhausts can make working conditions unbearable and cause damage to nearby components. Firwin insulation blankets on exhaust piping reduce ambient heat to safe and manageable levels.

## Removable Insulation Blankets for Your On-Site Power System

### Helping you manage the heat.

Whether it's for prime power, standby emergency power, portable generator sets, or co-generation facilities, industry relies on on-site power systems to provide the power they need when they need it.

Powered by diesel engines, gas engines, or gas turbines, these systems generate heat. A lot of heat. And whether it's for operator safety or optimization of pollution control equipment, that heat has to be managed. That's where Firwin Removable Insulation Blankets come in.

### Maintenance and inspection friendly

Firwin's removable insulation blankets are designed to be easily installed and removed to allow access to parts for maintenance and inspection.

### Modular and retrofittable design

Our blankets can be easily retrofitted onto existing applications. Their modular design allows you to remove or replace only the necessary sections.



Our blankets are available in a variety of colors, thicknesses, and finishes.



### Stand-By Power

#### Daewoo P222LE Engine.

Firwin blankets on manifold, turbos, Y-connector and silencer.

## Containerized Gen-Set

### Hockey Puck Silencer

We work directly with silencer manufacturers – whatever the shape or size, we've got you covered.



## Removable Insulation Blankets

### An essential component of your on-site power system.

Engine and exhaust temperatures can reach upwards of 2000°F (1100° C). Without insulation blankets to contain the ambient heat, engine rooms become unbearably hot. This not only prevents personnel from maintaining the equipment, but also poses a potential fire hazard, risks setting off the sprinkler system, and can cause heat sensitive components to malfunction.

Insulation blankets are essential in lowering the ambient heat to an acceptable temperature, and in providing a touch safe surface temperature to engine and exhaust components so that:

- Personnel can enter the engine room to maintain equipment.
- Fire hazards are minimized.
- Workers are protected from dangerous burns.
- Components and controls function properly and do not overheat.

*“We send hand written drawings with engine information and we get a detailed quote with confirmed professional drawings with measurements soon after. Firwin Corp. has been very easy to do business with.”*

- Paul Millson, Sales & Marketing,  
Gencare Services Limited.

## Co-Generation Waste Recovery, CAT 3516 Engine.

Firwin's extensive engine library means that we are likely familiar with your application - allowing us to respond to your needs quickly with the right blanket at the right price.





## SCRs and Catalysts

### Helping meet emissions control requirements

Mandated emissions targets are becoming increasingly stringent, and proper insulation is an important aspect of ensuring that emission reduction targets are achieved. Many of the technologies in use require high exhaust heat – in some cases in excess of 800°F (425° C) – in order to function properly.

Without proper insulation, exhaust gases lose heat as they travel along the various pipes and components of the engine and exhaust system. Indeed, major engine users, as well as major catalyst manufacturers recommend removable insulation blankets as an important component of their emissions reduction strategy.

Insulation blankets on SCRs, purifiers and catalytic converters contain heat flow from the housing which:

- Brings the catalyst up to its effective operating temperature much faster.
- Ensures that the catalyst is kept at the highest operating temperature possible given the flow temperatures of the exhaust system.

### SCR System, DC Convention Centre

Firwin provided custom insulation blankets for 6 SCRs in order to maintain exhaust temperature and allow for optimal pollution burn-off.



# Why Firwin?

## Over 25 years of experience

Firwin has been in the insulation blanket business since 1982.

## Blankets are custom designed to fit your precise needs

Different applications call for different insulation solutions. The type of insulation material, blanket thickness, outer cover, and other factors can vary from one customer to the next.

At Firwin, we work with you to arrive at the best insulation solution for your application.

## Commitment to excellence in customer service

We strive to respond to all inquiries within 24 hours. Our design team is ready to help you determine what insulation is right for you. If there ever is a problem with one of our blankets, we will do whatever is necessary to make it right. Just ask our customers – most of our business comes from their referrals.



“Dealing with Firwin is always professional and very easy. The staff is well-versed in insulation technologies, and are prompt with a reply to my various technical inquiries. Firwin has consistently produced custom fabricated insulation blanket orders for me with an attention to detail and level of customer service unsurpassed in the industry.”

- Ted Karas, Sales Engineer,  
Boulden Energy Systems

Firwin insulation blankets are typically fastened using stainless steel lacing wire. While this method is the most versatile, alternative fastening systems are available. Our staff will work with you to decide which system is right for you.



## Need help with your blanket installation?

Firwin's crew will come to your site to help you through even the most challenging insulation projects.



**Firwin Corp provides removable insulation solutions to a number of industries:**

- Mining
- Power Generation and Genset
- Off Highway Vehicles
- On Highway Vehicles
- Military
- Marine
- Locomotive
- Industrial Process Industries

**Our blankets are designed to fit:**

- Engine Manifolds
- Elbows
- Flex Connectors
- Turbo Chargers
- Pipes
- Silencers
- Purifiers and SCRs.



**firwin**

*We've Got You Covered*

**Contact Firwin**

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