

PRECISION MANUFACTURING POWERED BY CLEAN ENERGY

Investment & Precision Castings Ltd. (IPCL)

IPCL integrates renewable energy, responsible manufacturing, and inclusive workforce practices to support sustainable industrial supply chains

2.5 MW Wind power capacity since 2006	75,000+ tonnes CO₂ Emissions avoided	4 MW Solar plant under commissioning	60+ women ~6% workforce
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Introduction

At Investment & Precision Castings Ltd. (IPCL), sustainability is an integral part of the company's manufacturing philosophy. As a leading manufacturer of precision investment cast components serving global industries including engineering, valves and pumps, automotive, and industrial equipment, IPCL continuously works to balance industrial growth with environmental responsibility.

As global industries increasingly prioritize low-carbon and sustainable supply chains, manufacturers play a critical role in reducing the embedded carbon footprint of industrial components. By integrating renewable energy and responsible operational practices into its manufacturing processes, IPCL aligns production with evolving environmental expectations across global markets.

Renewable Energy Leadership

IPCL demonstrated early leadership in industrial renewable energy adoption by commissioning its first wind power installation in 2006, well before sustainability initiatives became mainstream across manufacturing supply chains.

The company currently operates 2.5 MW of installed wind power capacity through two windmills commissioned in 2006 and 2011.

Through these renewable energy initiatives, IPCL has avoided more than 75,000 tonnes of CO₂ emissions since installation. Renewable electricity contributes to an annual reduction of approximately 4,300 tonnes of CO₂. A 4 MW solar power plant under commissioning will further increase renewable electricity supporting its manufacturing operations.



Renewable Energy in Manufacturing

Manufacturing processes such as metal melting, heat treatment, and precision machining require reliable and continuous energy supply. By integrating renewable energy into its energy mix, IPCL supports these energy-intensive processes while reducing its environmental footprint and maintaining operational efficiency.

ESG & Community Initiatives

IPCL promotes an inclusive workplace and environmental responsibility. The company employs over 60 women (~6% workforce).

Plantations along internal road dividers and a campus garden enhance ecological balance within the facility.

ESG Impact Highlights

- 2.5 MW wind power capacity supporting renewable energy generation since 2006
- 4 MW solar power plant under commissioning
- 75,000+ tonnes CO₂ emissions avoided through renewable energy initiatives
- Expected to avoid approximately 9,200 tonnes of CO₂ annually starting FY-2027
- Environmental impact comparable to ~ 418,000 mature trees annually



Investment & Precision Castings Ltd

You Design, We Cast