



PURAC

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*Director, North America Sales*

# Läckeby Water Group

Contracting



Products



Service



- Purac is part of Läckeby Water Group
- Turnover: 100 million USD
- Number of employees: >150
- Established in 1935

# The COOAB™ process from PURAC

- Low pressure reversible chemical adsorption of CO<sub>2</sub>.
- COOAB™ is a special amine composition liquid mixed with 50% water in a circulating sealed system.
- Amine technology is widely used in the field of natural gas.
- COOAB™ plants are specifically designed and sized for Biomethane upgrading.

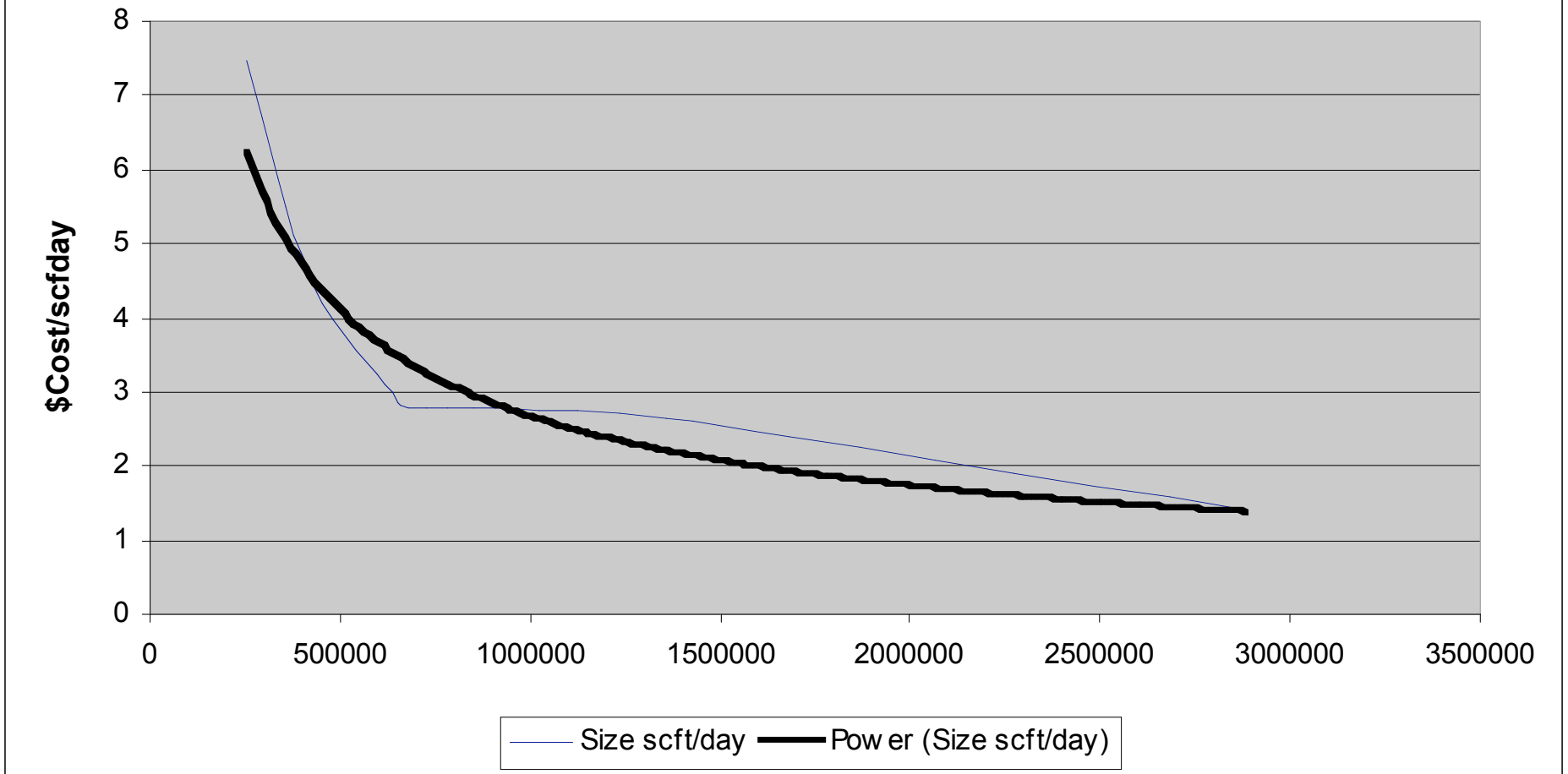
# Gas Upgrading Plants



# 3<sup>rd</sup> Gen: Modular Gas Upgrading Plants

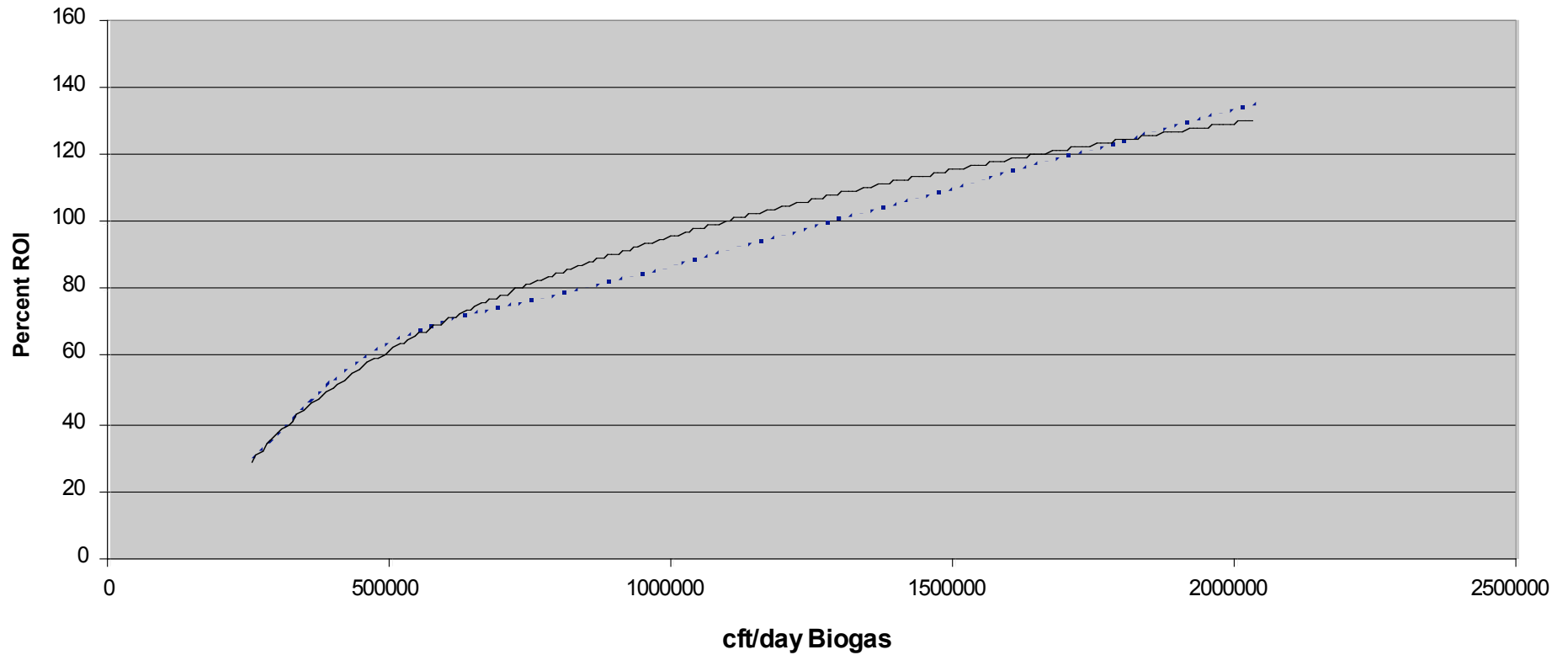


### Capital Cost (CapEx) Biogas to Biomethane upgrading (estimation based on 10 European plants)



# ROI for complete plant w digester, gas upgrade and injection or fueling

Biomethane sold at \$10/Decatherm



*Estimates based on 6 European plants converted to California cost and revenue conditions*

# Benefits of LP COOAB™ technology

- Upgrading at low pressure – approx. 4 psig.
- Upgrading to SoCal Gas & PG&E pipeline specification, in one continuous process.
- +99.5% methane efficiency, no methane in tail gas
- Reduced electrical energy consumption.
- Excess heat can be used for heating of e. g. digesters and buildings, etc.
- CO<sub>2</sub> from the stripper can be used in greenhouses, algae production for bio diesel or be further processed to industrial or food grade quality.

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