

## Case Study: Concentration of Glycerin at very low OPEX

Arvind Envisol (a subsidiary of Arvind Ltd.) introduces PFET (Polymeric Film Evaporation Technology) which can concentrate Glycerin at a very low OPEX. Our unique value proposition lies in the worldwide patented polymeric heat exchanger we use in our evaporators.

This technology offers various advantages such as:

- Globally, Lowest OPEX when compared to any other evaporation technologies.  
Requires only 10kgs of steam per KL of Evaporation
- No Corrosion
- Reduced Carbon Footprint
- Lower Fuel Consumption
- Removes bottleneck on capacity constraint of Boiler, lowering Steam Consumption

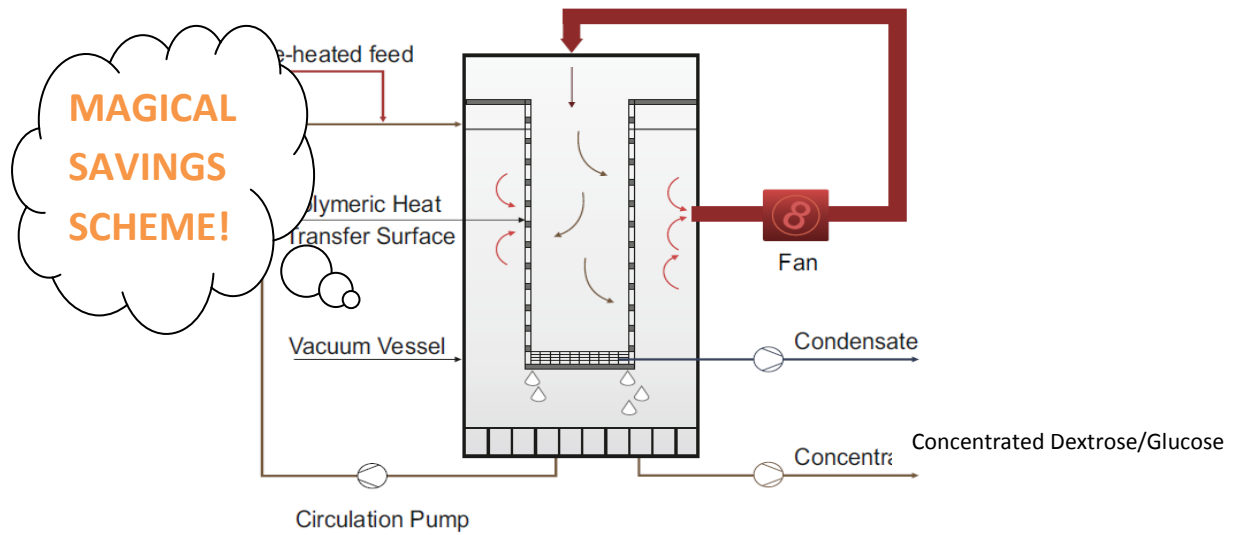
### OPEX Savings for Glycerin:

Assumed Inlet Feed	100 Tons per Day (Glycerin)
Initial Concentration	5%
Final Concentration	17%
Assumed Steam Cost	Rs 1.25/ kg
Assumed Power Cost	Rs 7/ KWh
Assumed Plant Production Days	330 days/ year

Cost Comparison	MEE (Double Effect)	Envisol PFET	Savings	Savings (in Rs)
Steam	32086 kgs	1500 kgs	30586 kgs	38,233
Power	2500 KWh	1500 KWh	1000 KWh	7000
			Net OPEX Savings (Rs/ Day)	45,232
			Net OPEX Savings (Rs/ Year)	149 lacs

**Payback of Technology for this application is less than 1 year**

# ENVISOL



**TECHNOLOGY BREAKTHROUGH! SAVE UPTO 60% ON YOUR GLYCERIN PRODUCTION**



Picture of a PFET plant