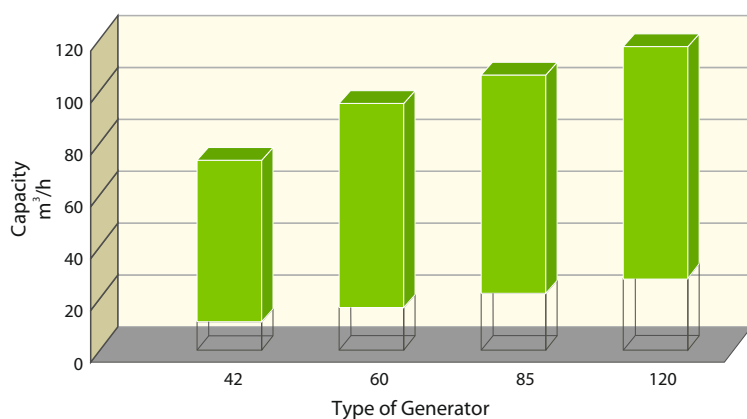


## Key construction features of new endothermic generators

- Automatic adjustment of the gas flow within the 0 - 100% range of maximum capacity can significantly reduce the generator operating costs in comparison with the traditional system as shown in the diagram below:



- No need for excess atmosphere burn off
- Fully automatic dew point control
- Weekend mode allows for energy savings during off hours
- Cooling system utilizes an air or water heat exchanger
- Easy service & maintenance
- Remote service connection as well as notification about events and alarm status via GSM network
- All executive and measurement data is automatically calculated and displayed on the HMI screen
- New insulation materials effectively conserve energy and improve operation



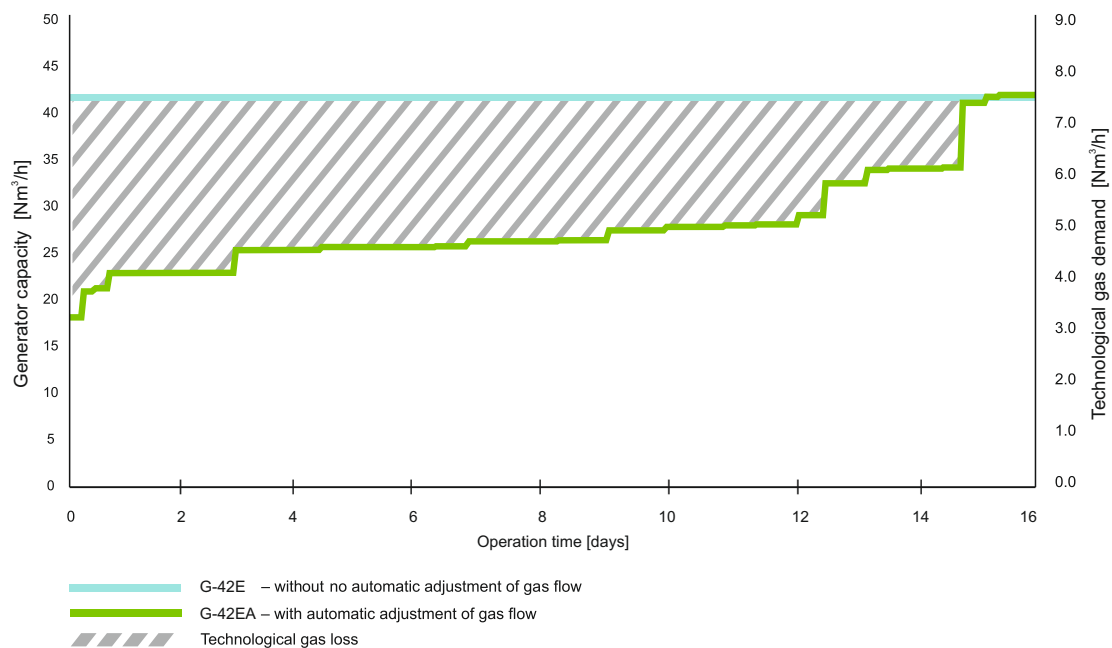
# New efficiency category for **Generators**

## Cost justification for new endothermic generator design

Have you ever thought about the savings that may be generated by switching to an automatically adjustable endothermic generator? Have a look at the G-42EA generator case study below which demonstrates the real savings that can be achieved with an automated system.

### Technical task:

- Compare the gas demand in two G-42E generators, one with the automatic adjustment feature (green line), and the second one working with nominal capacity (blue line)
- Both generators worked in a 16-day cycle
- Measure the consumption of natural gas to produce endothermic atmosphere within a 16-day period



G-42E – no variable capacity → 3 085m<sup>3</sup> of natural gas  
G-42EA – variable capacity → 2 084m<sup>3</sup> of natural gas

### Test Results:

During the test, the generator with variable regulation saved 1 001m<sup>3</sup> of natural gas. Assuming similar conditions for a time period of 12 months, the potential savings may reach up to...

**2 002 m<sup>3</sup> x 12 months = 24 024 m<sup>3</sup> of natural gas**  
**24 024 m<sup>3</sup> x 0,44 €/m<sup>3</sup> = 18 490 EUR of savings per year**

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