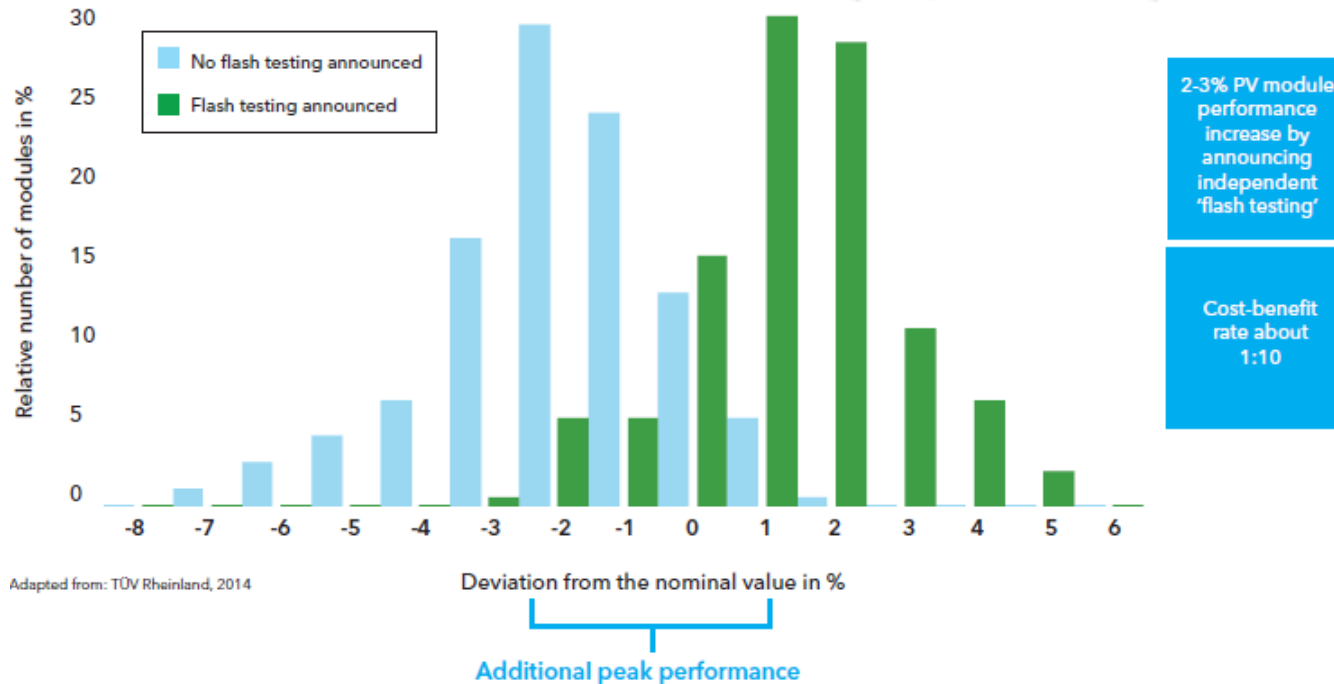
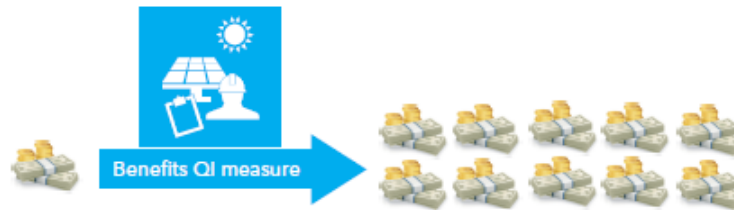


# The benefits of QI services outweigh their costs : Quality Assurance in EPC contracts

Example: Higher plant outputs due to module performance testing

## Higher outputs due to announced performance testing



2-3% PV module performance increase by announcing independent 'flash testing'

Cost-benefit rate about 1:10

### Quality Element: Testing

#### Case

- 20 MW PV plant in southern Europe
- kWh-sales price of 10 ctEUR
- 2-3% higher performance
- Measurement cost 5 – 10 kEUR
- Annual revenue increase 75 – 115 kEUR

Adapted from: TÜV Rheinland, 2014