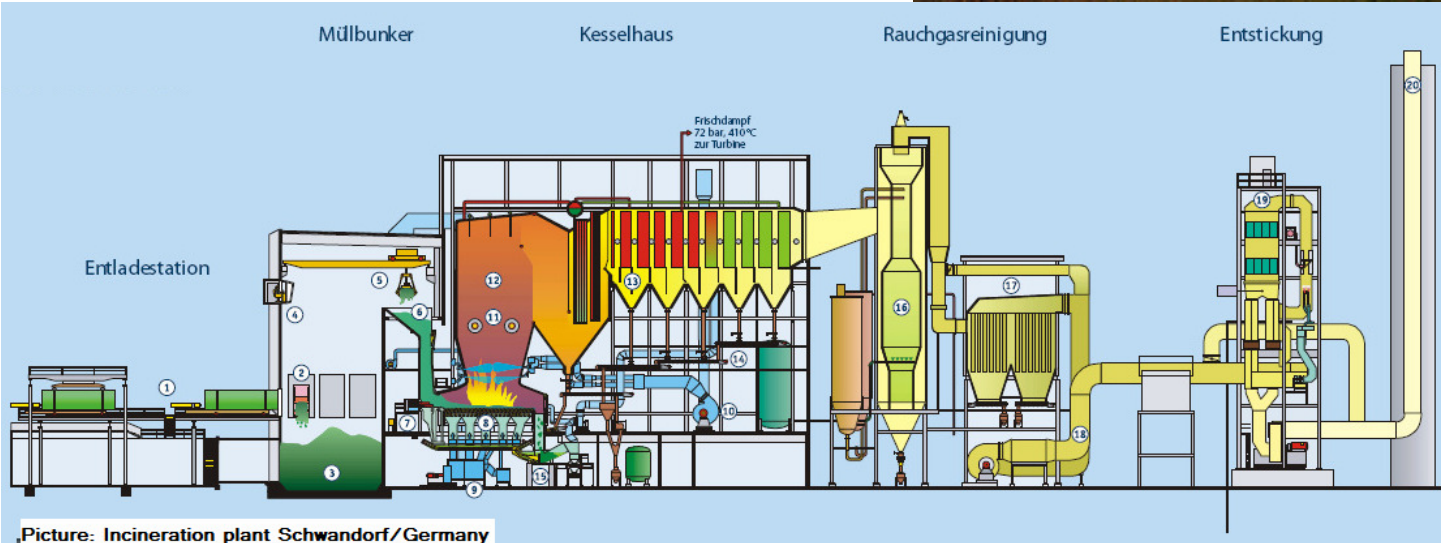
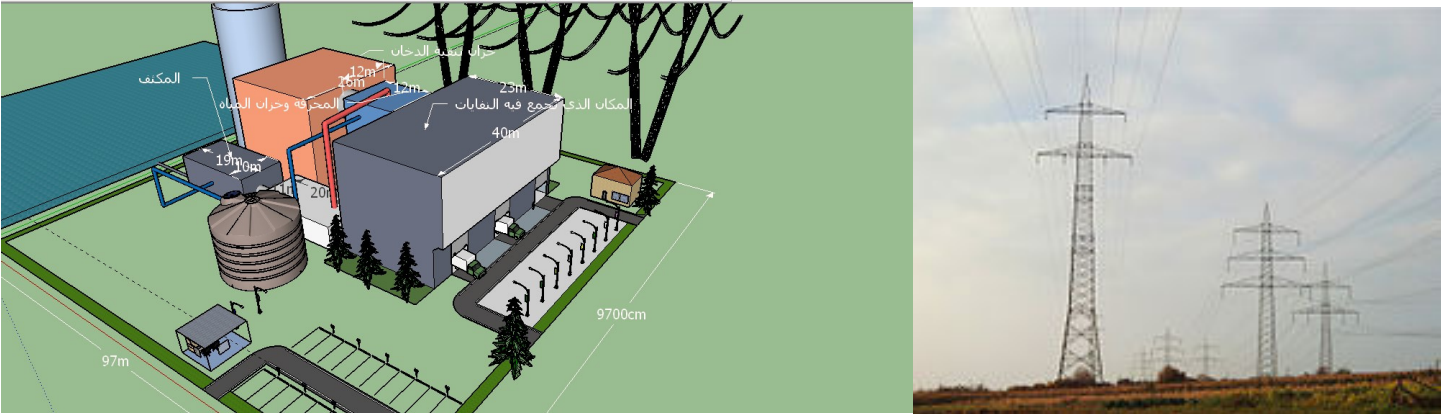


بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

# 4 MW IPP

## The TEMO Incineration Power Plant Project



Picture: Incineration plant Schwandorf/Germany

مشروع محطة طاقة عن طريق حرق النفايات

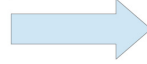
شارك في الاستثمار لتطور الامة

Investment for Future

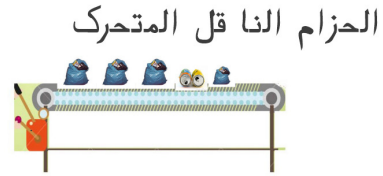
# جمع ، فرز و حرق النفايات

جمع النفايات

1.

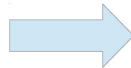
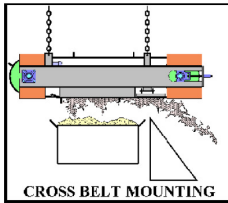


2.

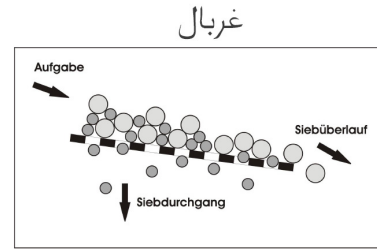


الأسطوانة المغنطة

3.

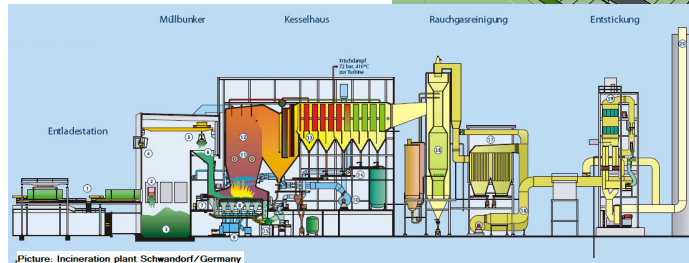
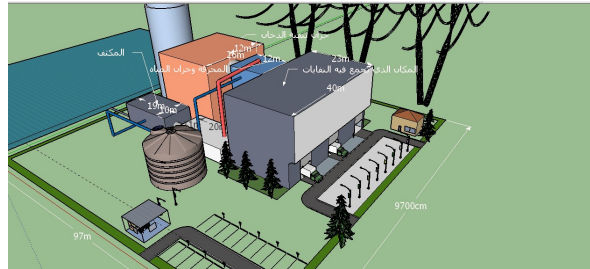
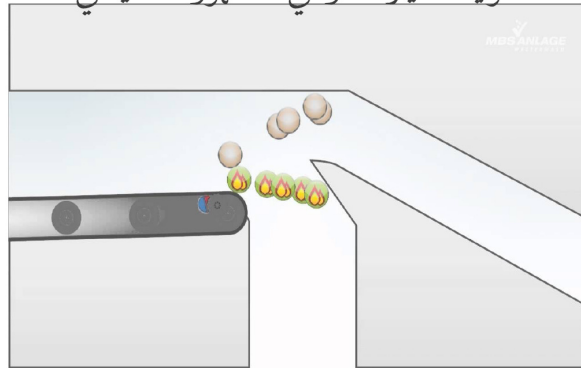


4.



طريقة التيار الدوامي - كهرومغناطيسي

5.

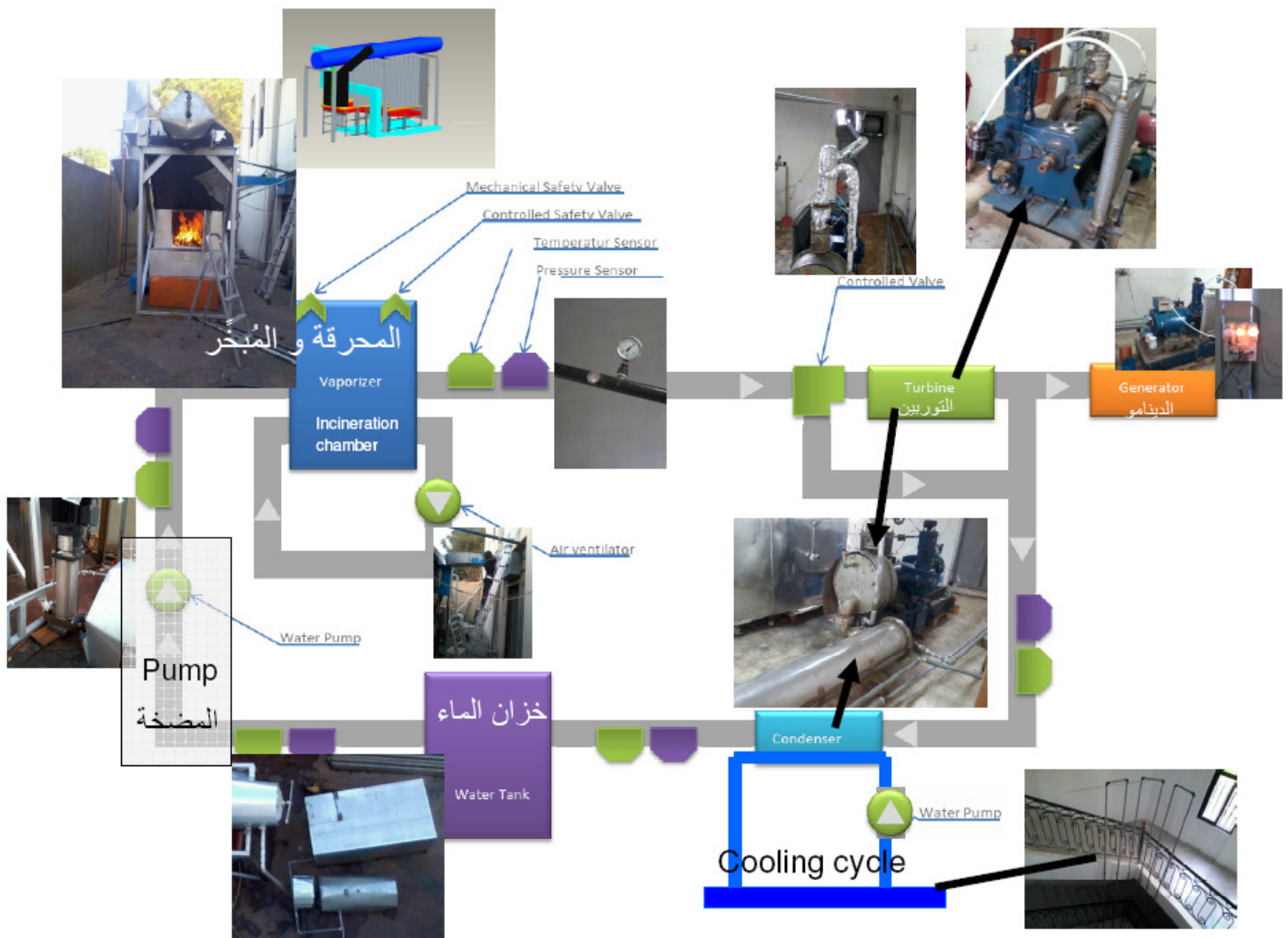
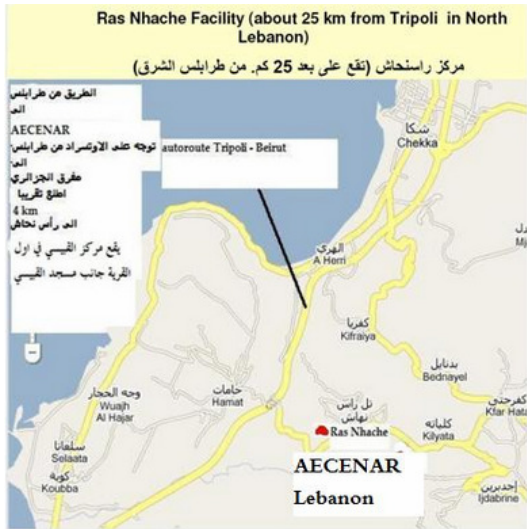


Picture: Incineration plant Schwandorf/Germany

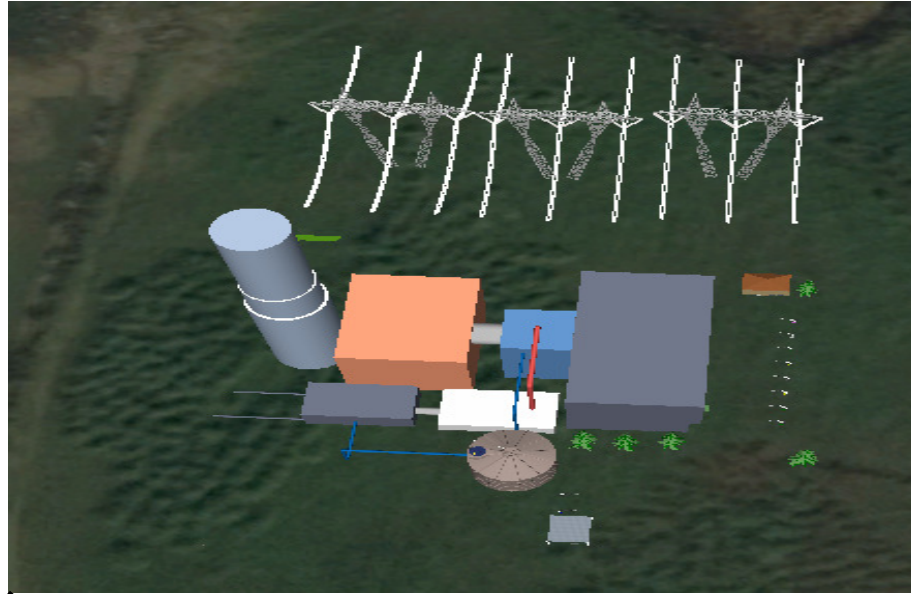


# TEMO-IPP Test rig - 2013/2014

## محطة طاقة تجريبية



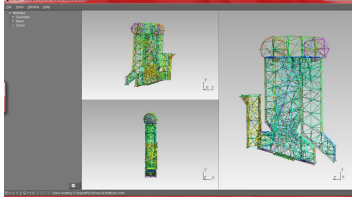
مشروع محطة طاقة 4MW عن طريق حرق النفايات  
Planned 4 MW incineration plant in Abde / North Lebanon



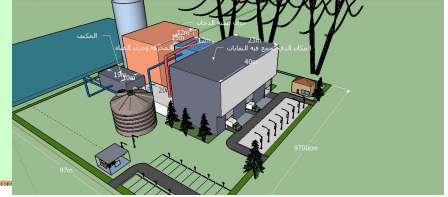
ما نحتاجه من البلدية

30 m x 30 m =  
900 qm  
ارض في جانب البحر





## تكاليف محطة طاقة 4 MW



### Installation cost

#### Time span

12 month (Oct. 2015 – Sept. 2016)

#### Material

4 MW Turbine&Generator	1,500,000 \$
Heat exchanger, condensor,	
Pipes, pumps, ...	500,000 \$
Incineration including	
incoming silo and filters	4,000,000 \$

#### Personal

Project Management & Leadership  
5 Engineers

About 50 technicians and workers

Personnel costs: 1,500,000 \$

**Total installation cost: ~ 7,500,000 \$**

### Operational cost per year

20 years (Sept. 2016 – 2036)

#### Maintance

500,000 \$

#### Personal

(3 Engineers, 3 technicians, 20 workers)  
400,000 \$

**Total operational cost per year:**

**~ 900,000 \$**

### Income per year (for 20 years)

Incineration Material from region

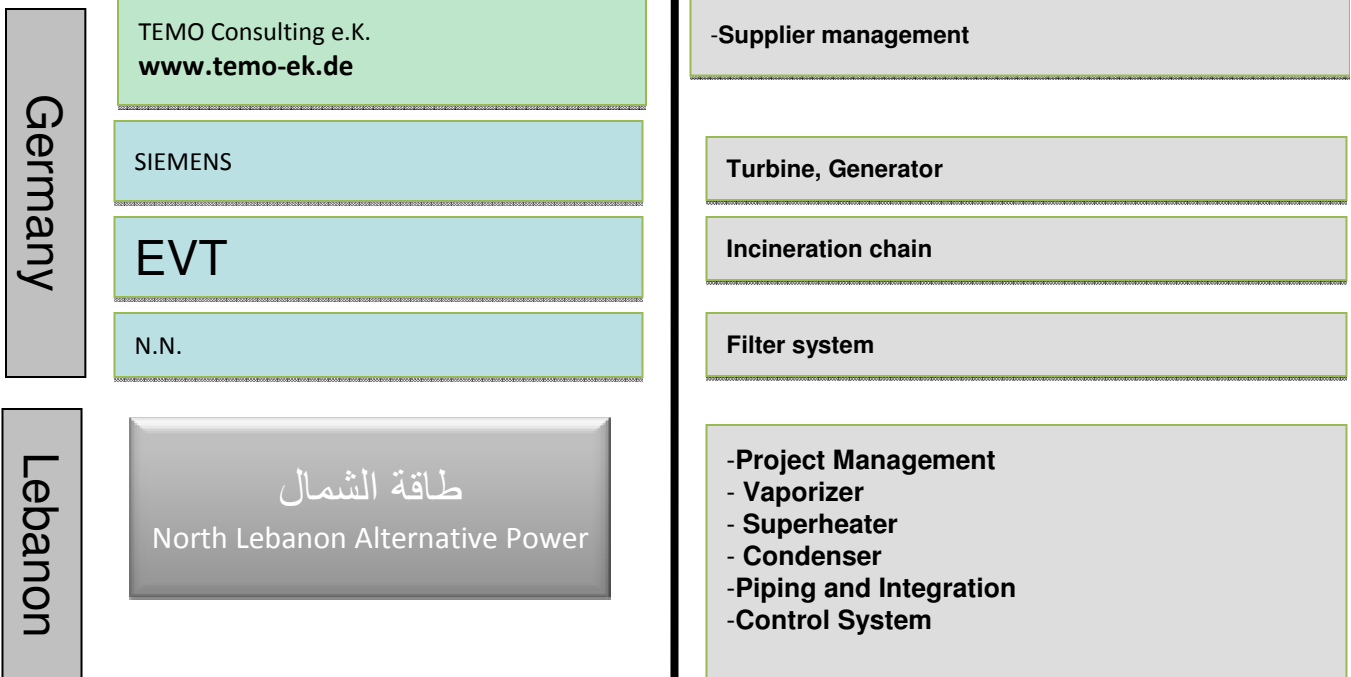
85t x 353 = 30,000 t

Electricity 353x20hx4MW=28,000,000 kWh

**Total income per year:**

**~ 3,000,000 \$**

## Actual Partners and Roles for installation



## الايجابيات:

-تخلص من بفايات ل100000 من السكان  
-ربح 2,000,000 دولار سنويا (اي بعد اربع سنوات يبدء زمن الربح لان  
التكلفة تقريبا 8,000,000 دولار)  
- اعطاء ل25 شخص وظيفة

### طاقة الشمال

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