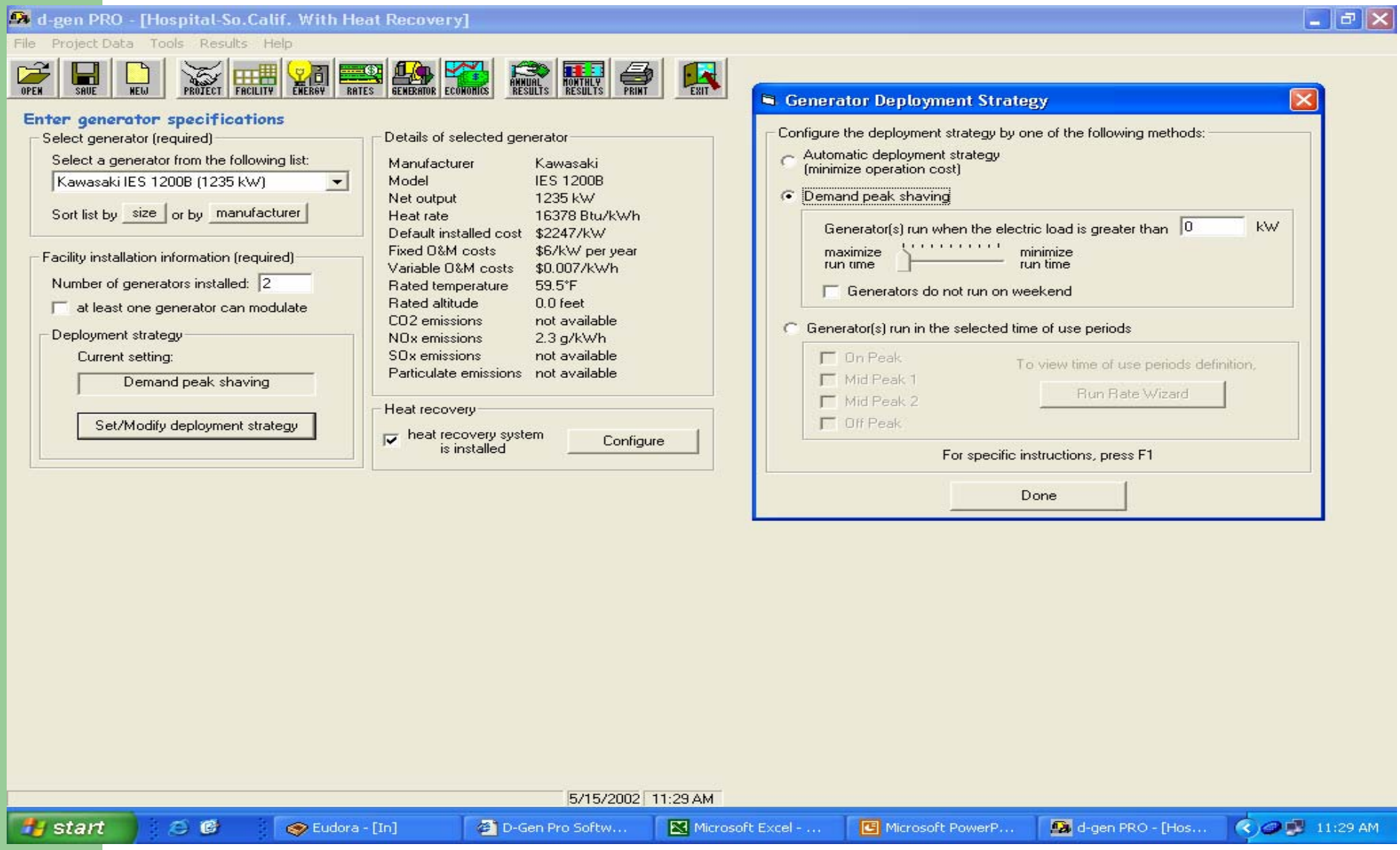
D-Gen Pro

- Developed by Architectural Energy Corporation and Gas Technology Institute
- Primary use: Preliminary screening of CHP heating applications in commercial buildings
- Provides baseline comparison (grid electricity and separate steam boiler)
- Data libraries: Generation equipment, HVAC equipment, utility rates, climate, 14 specific building types (e.g., hospital, office, hotel, apartment, school, retail)
- CHP applications: Hot water, space heating (no cooling options)
- Analysis duration/time step: unlimited; monthly
- Economic analyses: payback, lifecycle, IRR
- Cost: $695 (http://www.interenergysoftware.com/)

Input to D-Gen Pro Is Through Pop-Up Windows



D-Gen Pro Output Is Through On-screen Windows and Printed Reports

View Full Report

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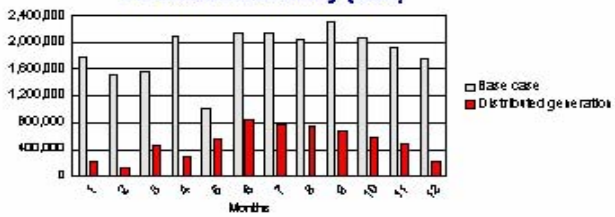
d-gen PRO

d-gen PRO version 3.09
Hospital-So.Calif. With Heat Recovery
Date: 6/28/2002

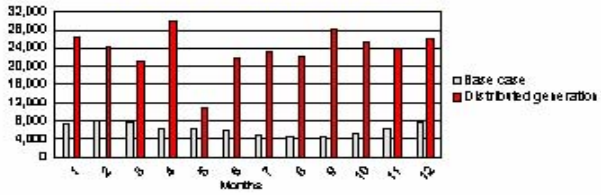
ENERGY CONSUMPTION SUMMARY

	Base case		Distributed generation case	
Month	Electricity consumption (kWh)	Natural gas consumption (MMBtu)	Electricity consumption (kWh)	Natural gas consumption (MMBtu)
Jan	1,783,081	7,559	208,706	26,513
Feb	1,621,179	8,141	122,813	24,325
Mar	1,554,119	7,849	463,048	21,034
Apr	2,083,680	6,501	285,491	29,958
May	1,027,621	6,264	547,414	10,788
Jun	2,134,621	5,911	845,272	22,070
Jul	2,153,247	4,843	771,551	23,411
Aug	2,060,911	4,649	747,761	22,274
Sep	2,327,130	4,576	654,988	28,132
Oct	2,071,709	5,289	575,262	25,221
Nov	1,914,974	6,496	485,935	24,091
Dec	1,758,240	7,704	210,060	26,214
Total	22,390,511	75,782	5,918,291	284,030

Purchased Electricity (kWh)



Purchased Natural Gas (MMBtu)



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D-Gen Pro Output

Separately for baseline (benchmark) and DER case:

- Monthly and annual fuel flows
- Monthly and annual electricity usage
- Monthly and annual energy costs

In comparison of baseline to DER case:

- Waste heat utilization summary
- Internal rate of return (IRR)
- Simple payback
- Lifecycle savings