

National Workshop on the Use of Energy and Power Evaluation Program (ENPEP) in IAEA Project MEX/0/012

Mexico City, Mexico, 10-21 September 2001

Week 1: 10 – 15 September 2001; course staff: 1 IAEA staff, 1 expert (ANL, US), 1 expert (Brazil)

Time / Day	Monday, 10 September	Tuesday, 11 September	Wednesday, 12 September	Thursday, 13 September	Friday, 14 September
9:30 - 11: 00	<u>Course opening:</u> Registration, Opening Ceremony, Course Overview, Organization, and Objectives	<u>Lecture 3:</u> Introduction to Energy Modelling with BALANCE - a Simple Case	<u>Lecture 5:</u> Up-Pass and Down-Pass Sequences in BALANCE: methodology and implications	<u>Lecture 7:</u> Representation of the Electric Sector in BALANCE	<u>Lecture 9:</u> Developing Supply and Demand Networks with ENPEP
	IAEA / Hosting organization	Expert (ANL)	IAEA staff	Expert (ANL)	Expert (ANL)
11:00 - 11:15	Coffee/Tea Break				
11:15 - 12:30	<u>Lecture 1:</u> Introduction to ENPEP for Windows: ENPEP structure and major features	<u>Work session:</u> Training with Simple Case networks	<u>Work session:</u> Training with example networks	<u>Work session:</u> Training with electric networks	<u>Work session:</u> Modelling the national energy system with ENPEP
	Expert (ANL)	All	All	All	All
12:30 - 12:45	Coffee/Tea Break				
12:45 - 14:15	<u>Lecture 2:</u> The BALANCE Module of ENPEP: Methodology and Data Requirements	<u>Lecture 4:</u> Energy Modelling with BALANCE - a Refinery Case	<u>Lecture 6:</u> Experience with ENPEP application in Brazil	<u>Lecture 8:</u> Use of decision-making analysis in an ENPEP study in Brazil	<u>Lecture 10:</u> Modelling Real Energy Networks with ENPEP - Guidelines and Examples
	IAEA staff	IAEA staff	Expert (Brazil)	Expert (Brazil)	IAEA staff
14:15 - 15:45	Lunch Break				
15:45 - 17:30	<u>Work session:</u> ENPEP installation at local computers, computer familiarization	<u>Work session:</u> Training with Refinery Case networks	<u>Work session:</u> Training with example networks	<u>Work session:</u> Training with example networks	<u>Work session:</u> First week summary (question/answer session)
	All ¹	All	Participants	All	All

¹ All means the course staff (present at the time) and the participants.

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Mexico City, Mexico, 10-21 September 2001

Week 2: 17 – 21 September 2001; course staff: 1 IAEA staff, 1 expert (ANL, US), 1 expert (Colombia)

Time / Day	Monday, 17 September	Tuesday, 18 September	Wednesday, 19 September	Thursday, 20 September	Friday, 21 September
9:30 - 11:00	<u>Lecture 11:</u> Environmental Calculations in ENPEP for WINDOWS	<u>Lecture 12:</u> Estimation of Energy System Costs with BALANCE	<u>Lecture 14:</u> Use of BALANCE to calculate natural gas transportation costs	<u>Lecture 15:</u> Experience with ENPEP application in Colombia	<u>Work session:</u> Modelling the national energy system with ENPEP
	Expert (ANL)	IAEA staff	Expert (Colombia)	Expert (Colombia)	All
11:00 - 11:15	Coffee/Tea Break				
11:15 - 12:30	<u>Work session:</u> Training in BALANCE environmental calculations	<u>Work session:</u> Training in BALANCE cost calculations	<u>Work session:</u> Modelling the national energy system with ENPEP	<u>Work session:</u> Modelling the national energy system with ENPEP	<u>Work session:</u> Modelling the national energy system with ENPEP
	All	All	All	All	All
12:30 - 12:45	Coffee/Tea Break				
12:45 - 14:15	<u>Work session / discussion:</u> Guidelines for developing a model of the Mexican energy system with ENPEP	<u>Lecture 13:</u> Guidelines for the national presentation at the end of the workshop	<u>Work session:</u> Modelling the national energy system with ENPEP	<u>Work session:</u> Modelling the national energy system with ENPEP	<u>Presentation / discussion:</u> Models of the Mexican energy system developed with ENPEP at the workshop
	All	IAEA staff	All	All	Participants
14:15 - 15:45	Lunch Break				
15:45 - 17:30	<u>Work session:</u> Modelling the national energy system with ENPEP	<u>Work session:</u> Modelling the national energy system with ENPEP	<u>Work session:</u> Modelling the national energy system with ENPEP	<u>Work session:</u> Modelling the national energy system with ENPEP	Workshop summary and closing
	All	All	All	All	All