1	I. Renewable Portfolio Standard	
2		
3	17.400 Florida Renewable Portfolio Standard	
4	(1) Application and Scope.	
5	(a) The Commission shall establish a Renewable Portfolio Standard Rule (hereafter called	Palatada : 1 (61) (1 1
6	"RPS Rule") that is equitable to the rate-payers, the utilities, and renewable energy resources	Deleted: <u>numerical portfolio standards</u> <u>for each investor-owned electric utility</u>
7	that will protect and promote the development of renewable energy, protect the economic	
8	viability of existing renewable energy facilities, diversify the types of fuel used to generate	
9	electricity in Florida, lessen Florida's dependence on fossil fuels for the production of	
10	electricity, minimize the volatility of fuel costs, encourage investment into the state, improve	Districts
11	environmental conditions, and minimize the costs of power supplies to the electric utilities and	Deleted: y
12	their customers in all classes (residential, commercial and industrial)	Data de la companya d
13	(b) After approval of the RPS Rule, the Commission shall review and the RPS Rule at least	Deleted: initial renewable portfolio standards Deleted: set renewable portfolio
14	once every five years. The Commission on its own motion, or upon petition by a substantially	standards for each investor-owned electric utility
15	affected person or a utility or renewable energy resource, shall initiate a proceeding to review	
16	and, if appropriate, modify the RPS Rule from time to time or at any time not less frequently	Palatada II. (C.E. a. I. I.
17	than on a 5 year basis. All modifications of the approved renewable portfolio standards and	Deleted: renewable portfolio standards
18	the associated compliance plans shall only be on a prospective basis.	Deleted (a) In a presenting to
19	(2) Definitions.	Deleted: (c) In a proceeding to establish or modify the renewable portfolio standards, each investor-owned
20	(a) "Florida renewable energy resources," means electrical, mechanical, or thermal energy	electric utility shall propose numerical renewable portfolio standards based on a analysis of the technical and economic
22	produced from a method that uses one or more of the following fuels or energy sources:	potential for Florida renewable energy resources to provide reasonably achievable and affordable annual energy
23	hydrogen, biomass, solar energy, geothermal energy, wind energy, ocean energy, waste heat,	(KWH) savings.¶
24	or hydroelectric power that was produced in Florida or imported when and if the power has	Deleted: is
25	been produced with least emissions (NOx, SOx, CO, CO2, Dioxans, Furans, and carcinogens)	
	CODING: Words <u>underlined</u> are additions; words in struck through type are deletions from existing law.	

1	for which stack results must be tested and supplied to the PSC by menas of SCADA or semi-		
2	annual settlement tests.		Deleted:
3	v		
4	(b) "Renewable energy," means electrical energy produced from a method that uses one or		
5	more of the following fuels or energy sources: hydrogen produced from sources other than		
6	fossil fuels, biomass, solar energy, geothermal energy, wave energy, wind energy, ocean		
7	energy, and hydroelectric power. The term includes the alternative energy source, waste heat,		
8	from sulfuric acid manufacturing operations.		
9	(c) "Biomass," means a power source that is comprised of, but not limited to, combustible		
10	residues or gases from forest products manufacturing, agricultural, horticultural, or industrial		
11	BTU convertible waste streams, or co-products from agricultural and orchard crops, waste or		Deleted: waste
12	co-products from livestock and poultry operations, waste or byproducts from food processing,		
13	urban wood waste, municipal solid waste, municipal liquid waste treatment operations, and		
14	landfill gas.		
15	(d) "Class I renewable energy source," means Florida renewable energy resources derived		Deleted:
16	from wind or solar energy systems or any source that does not required an Air Permit in the		
17	State of Florida.		Deleted: _
18	(e) "Class II renewable energy source," means renewable energy derived from Florida		
19	renewable energy resources other than Class I renewable energy sources.	Z	Deleted: wind or solar energy systems.
20	(f) "Renewable Energy Credit," means a financial instrument that represents the unbundled,		
21	separable, renewable attribute of renewable energy or equivalent solar thermal energy		
22	produced in Florida and is equivalent to one megawatt-hour of electricity generated by a		
23	source of renewable energy asset physically located in Florida.	/	Deleted: Deleted: minimum percentage of total
24	(g) "Renewable Portfolio Standard," means the RPS Rule made by this committee.		annual retail electricity sales by an investor-owned electric utility to consumers in Florida that shall be
25	CODING: Words underlined are additions; words in struck through type are deletions		supplied by renewable energy produced in Florida.¶

1	(h) "Solar Energy System," means equipment that provides for the collection and use of
2	incident solar energy for water heating, space heating or cooling, or other applications that
3	would normally require a conventional source of energy such as petroleum products, natural
4	gas, or electricity that performs primarily with solar energy. In other systems in which solar
5	energy is used in a supplemental way, only those components that collect and transfer solar
6	energy shall be included in this definition.
7	(i) "Solar Photovoltaic System," means a device that converts incident sunlight into electrical
8	<u>current.</u>
9	(j) "Solar thermal system," means a device that traps heat from incident sunlight in order to
10	heat water.
11	(k) "Equivalent Solar Thermal Energy," means the conversion of the thermal output, measured
12	in British Thermal Units, of a solar thermal system to equivalent units of one megawatt-hour
13	of electricity otherwise consumed from or output to the electric utility grid.
14	(3) RPS RULE:
15	(a) Each investor-owned utility shall be required to wheel any RPS energy into the
16	transmission lines for sale to rate-payers prior to wheeling any non-RPS energy to the rate-
17	payers.
18	(b) The RPS energy resource shall be paid per kwh at the rate benchmarked to the market (and
19	thus controlled by the market and market thresholds in order to protect the rate-payers of
20	Florida) in each IOU service area. Rates shall be marked to market every 15 minutes.
21	(c) RPS energy shall be transmitted without tariff, as the public (which owns the transmission
22	lines) has established a preference for clean energy, which shall be expressed as tariff-free use
23	of the transmission lines.
24	(d) Each investor-owned utility shall pay the REC for each MW placed into the transmission
25	CODING: Wards and dealined are additional worlds in atmost through time are deletions

CODING: Words $\underline{underlined}$ are additions; words in $\underline{struck\ through}$ type are deletions from existing law.

Deleted: enewable Portfolio Standard.
Within 90 days of the effective date of
this rule, and not less than every five
years thereafter, each investor-owned
electric utility shall file for approval by
the Commission proposed renewable
portfolio standards based on an analysis
of the technical and economic potential of
Florida renewable energy resources for
each utility's service area.

Deleted: Initially, e

1	lines by each RPS energy resource.
2	For the purpose of encouraging energy with the least Air Quality negative impact, all energy
3	from Tier 1 resources shall be placed into the transmission queue prior to any energy from a
4	Tier 2 resource, followed by energy from all other sources.
5	(4) Compliance.
6	(a) While no fees are assigned to the Florida investor-owned utilities for failing to
7	encourage sufficient RPS energy in their services areas, a fine of \$10,000 US (ten
8	thousand US dollars) per MWh shall be assigned to any Florida investor-owned utility
9	for failing to place RPS energy first in the transmission queue, failing to mark to
10	market, or failing to purchase a REC. This fine shall be paid out of dividends from th
11	Florida investor-owned utilities to investors, and not out of rate-payers revenues.
12	(b) Each Florida investor-owned utility shall offer and sign bankable contracts Power
13	Purchase Contracts (#OCC 1051 compliant) which do not in any way pierce the 17
14	year protection on intellectual property by mandating inspections beyond the meter
15	and switchgear.
16	(c) Each Florida investor-owned utility shall, notwithstanding the above, provide a public
17	affirmation to obey the RPS Rule described in section 3, whether or not a PPA has
18	been or will be signed, to any RPS energy resource to invite them to place RPS energy
19	in the transmission lines.
20	(d) Each Florida investor-owned utility to waive all transmission feasibility fees and
21	approve all requested access by an RPS energy resource to the public transmission
22	lines in support of FERC 888. Any FL investor-owned utility found to be preventing
23	access to the transmission lines through any dilatory procedural delay to be fined
24	\$50,000,000 US (fifty million US dollars) which fine shall be delivered entirely to the
25 I	CODING: Words <u>underlined</u> are additions; words in struck through type are deletions
	from existing law.

Deleted: submit proposed annual renewable portfolio standards which meet or exceed the following long term standards through the production or purchase of renewable energy credits pursuant to Rule 17.410, F.A.C..¶

1. by January 1, 2010: 2 percent of the prior year's retail electricity sales,¶

2. by January 1, 2017: 3.75 percent of the prior year's retail electricity sales,¶

3. by January 1, 2025: 6 percent of the prior year's retail electricity sales,¶

4. by January 1, 2050: 20 percent of the prior year's retail electricity sales,¶

Deleted: ¶

Options for Wind & Solar Preference:

(b) By January 1, 2017, a minimum of 25% of the renewable portfolio standard shall be provided from Class I renewable energy sources;¶
OPTION II.¶

(b) By January 1, 2017, a minimum of 20% of the renewable portfolio standard shall be provided from Class 1 solar photovoltaic or solar thermal systems and 5% of the renewable energy portfolio standard shall be provided by Class 1 wind energy systems; OPTION III.

(b) For purposes of compliance with the renewable portfolio standards, a multiplier of 5 shall be applied to all renewable energy credits produced from Class I renewable energy sources until the first year in which they represent, in aggregate, 25% of the annual Renewable Portfolio Standard.

Deleted: ¶

Deleted: ¶

(c) Each investor-owned electric utility proposed renewable portfolio standard filing shall, at a minimum, contain the following ¶

following.¶

1. Current and ten-year forecast of installed capacity in kilowatts for each Florida renewable energy resource,¶

2. Levelized life-cycle cost in cents per kilowatt-hour for each Florida renewable energy resource;¶

__3. Current and ten-year forecast of the effects of the renewable portfolio standard on the reduction of greenhouse gas emissions in Florida;¶

_4. Current and ten-year forecast of the effects of the renewable portfolio standard on economic development in Florida; and ¶

5. Current and ten-year forecast of the estimated retail rate impact for each class of customers of the proposed renewable portfolio standard.

Deleted: (\underline{a})

Formatted: Bullets and Numbering

1	RPS energy resource from the dividends of the FL investor-owned utility.	
2	(e) An RPS resource may choose to forward-sell electricity and/or RECs as far as twenty	
3	years in advance. If this is desired by the RPS resource, utilities must purchase the	Deleted: <#>In ap
4	electricity and/or RECs with a futures derivative agreement that benchmarks electricity	renewable portfolio enforcing complianc renewable portfolio
5	prices per the NYMEX for electricity and the Green Exchange for RECs, but marks to	Commission shall co investor-owned elec- compliance with any
6	market at 15 minute intervals to prevent unsupportable agreements. If the RPS	standard based upon 1. the supply of rer renewable energy cr
7	resource requests a cash dNPV (discounted Net Present Value) of the electricity or	to satisfy the demand 2. the cost of secur energy or renewable
8	RECs sales agreement, the FL investor-owned utilities will provide said cash	prohibitive such that compliance with the standard exceeded o
9	according to the discount rate set in latest rendition of the Tristone Energy Lending	investor-owned election annual retail revenue (b) Any utility reque
10	Price Survey (currently set at 9%)- this requirement to be modified by mutual	from meeting its ren standard must submi with the annual repo
11	agreement if and when any condition exists wherein a FL investor-owned utility	25-17.400(6), F.A.C (5) Cost Recovery. prudent costs associa
12	declares the transactions to impose a financial hardship on the investor-owned utility	provision or purchas energy credits to me renewable portfolio
13	and for relief seeks a hearing to request the assistance of the Florida DEP which can, in	administrative costs Renewable Energy Compared through
14	turn, arbitrate or mediate the financial transaction (bankable contracts) through to the	Cost Recovery claus (6) Reporting Required investor-owned elec-
15	US Treasury for financing with the Federal Finance Bank, or the Institutional Capital	with the Commission later than April 1 of previous calendar ye
16	or Credit Markets in order to prevent the economic hardship from being transferred to	owned electric utility include the following (a) the retail sales of
17	the FL investor-owned utility's rate-payers.	megawatt-hours;¶ (b) the quantity of se renewable energy in
18		separated by fuel typ (c) the quantity of re purchased in megaw
19	v	by type of ownership (d) the quantity and generated renewable
20	Specific Authority 350.127(2), 366.05(1), FS. Law Implemented 366.02(2), 366.04(2)(c), (5), (6), 366.041,	(e) the quantity and energy credits purch (f) the fuel type and
21	366.05(1), 366.81, 366.82(1),(2), 366.91(2), 366.92 FS. History–New XX-XX-08.	Florida renewable en associated with each credit;¶
22	JI. Florida Renewable Energy Credit Market	(g) a statement as to compliance with the standard in the previous
23		and ¶ (h) the utility's plan generation or procur
24	17.410 Florida Renewable Energy Credit Market (hereafter called "RECs market").	renewable portfolio current calendar yea
25	l e e e e e e e e e e e e e e e e e e e	two years.¶ Deleted:

CODING: Words underlined are additions; words in struck through type are deletions from existing law.

pproving the proposed standards and ce with the approved standards, the onsider excusing an etric utility from y renewable portfolio a showing that:¶ newable energy or redits is not adequate
ad for such energy; or ring renewable energy credits was the total costs for renewable portfolio ne percent of the tric utility's total esting to be excused newable portfolionit its request along ort required by Rule 2.¶ Reasonable and ated with the se of renewable et the utility's standards, including of the Florida Credit Market, shall h the Environmental se.¶ irements. Each etric utility shall file n an annual report no each year for the ear. Each investor-y's report shall g:¶
f the prior year in elf-generated n megawatt-hours oe;¶ enewable energy vatt-hours, separated p and fuel type;¶ vintage of selfe energy credits;¶ vintage of renewable nased;¶ ownership of the nergy resource renewable energy whether it was in renewable portfolio ious calendar year; for additional rement to meet the standard for the r and the following

Deleted: -Page Break-

- 5 -

1	(1) An electronic Florida RECs Market shall be established. The renewable energy credit		Deleted: Investor-owned electric utilities shall establish and administer, subject to Commission approval pursuant
	market shall allow for the production, transparent buying/selling/trading of renewable energy		to subsection (4), an electronic renewable energy credit market
2		F	Deleted: <u>transparent</u>
3	credits used to comply with the RPS Rule, All records associated with the production of and		Deleted: , and
4	the buying/selling/trading of renewable energy credits shall be available to the Commission		Deleted: renewable portfolio standards of Rule 25-17.400, F.A.C.
5	for audit purposes. All prices out to the latest-vintage sale shall be electronically posted,		Deleted: .
6	which prices shall reflect the average price, not the highest or lowest price, per REC for that	•	Deleted: .or
7	quarter. The electronic platform shall allow for the option of registration of renewable energy		
8	credits for sale directly and without brokers by the RPS energy resources.		
9	(a) The RECs Market shall be developed, administrated and maintained by an independent		Deleted: Investor-owned electric utilities are encouraged to collectively establish and contract with a
10	not-for-profit corporation, which shall be governed by a board that with representation		Deleted: for the development, administration, and maintenance of a Florida Renewable Energy Credit Market
11	(roughly) as follows:		
12	55% renewable energy resources, activists, technologists		
13	20% renewable energy financiers, brokers, traders, market analysts		
14	25% utilities and FL Public Service Commission.		
15	Board membership requirements shall be strictly enforced.		Deleted: encouraged
16	(b) Municipal electric utilities and rural electric cooperative utilities are required to participate		
17	in the Florida RECs Market inasmuch as they purchase RECs from RPS energy resources		Deleted: enewable Energy Credit
18	when RPS energy is wheeled to their service areas, which shall be in exact per capita ratio as		
19	the FL investor-owned utilities.		Deleted: enewable Energy Credit
20	(c) The administrative costs associated with the electronic Florida RECs Market shall be		PCICLEM. CHEWADIC EHELBY CICUIT
21	collected either through membership dues, certification fees, or administrative fees assessed to		
22	the Florida investor-owned utilities until such time as the 20% RPS goal is met in Florida, and		
23	following the achievement of that goal, the cost shall be sustained through an automatic 1%		Deleted: a renewable energy credit.
24	removed from each REC transaction, from utility and RPS energy resource equally,		Fees shall be fair, equitable, and cost-based.
25			

CODING: Words $\underline{underlined}$ are additions; words in $\underline{struck\ through}$ type are deletions from existing law.

ı	(2) The following entities are eligible to produce renewable energy credits:	Deleted: Each investor-owned electric utility shall comply with the renewable
1	\	portfolio standards approved by the Commission pursuant to Rule 25-17.400, F.A.C., through the production or
2	Investor-owned electric utility Florida owned renewable energy resources;	purchase of renewable energy credits.¶ (a)
3	2. Municipal electric utility and rural electric cooperative utility owned Florida	Deleted: that may be counted toward the renewable portfolio standard
4	renewable energy resources;	
5	3. Non-utility (distributed generator, independent operator, joint venture, public-	Deleted:
6	private enterprise, private equity or any other) Florida-located renewable energy resources	
7	providing net capacity and energy to the Florida electric utility or to a municipal utility or to a	Deleted: under a purchase power agreement
8	rural electric cooperative utility transmission lines, regardless of an existing PPA;	Deleted: <u>a</u>
9	4. Non-utility Florida renewable energy resources or producers greater than 2	
10	megawatts providing on site generation to offset all or a part of the customer's electrical	
11	needs.	
12	5. Non-utility Florida renewable energy resources greater than 2 megawatts providing	Deleted:
13	equivalent solar thermal energy to offset all or a part of the customer's electrical needs;	
14	6. Customer-owned Florida renewable energy resources, 2 megawatts or less, that have	
15	not received incentives from a Commission-approved demand-side conservation program	
16	pursuant to the Florida Energy and Efficiency Conservation Act, Sections 366.8085 and	
17	403.519, F.S.	
18		
19	(3) A renewable energy credit is retained by the owner of the eligible Florida renewable	Deleted: b
20	energy resource from which it was derived unless specifically sold or transferred.	
21	(a) The only instance in which renewable energy may be wheeled to out-of-state rate-payers is	
22	if all energy in Florida is renewable, or during a condition of force majeure, necessitating	
23	temporary (less than 3 months) power infusion to a neighboring location or "affected area". In	
24	this case, power generated by non-renewable sources of Florida must be deemed insufficient	
25		
	CODING: Words <u>underlined</u> are additions; words in struck through type are deletions from existing law.	

1	to meet the needs of the rate-payers of the affected area by the FERC or any federal or state		
2	disaster management office, in which case the FL transmission entity (FL investor-owned		
3	utility or otherwise) must mark the energy price to the destination market price and the RECs		
4	may or may not be separately marketed as deemed fit by the RPS energy resource.		
5	(b) A renewable energy credit shall be valid per tax legislation and shall be deemed valid for		Deleted: c
6	two years after the date the corresponding megawatt-hour or equivalent solar thermal energy		
7	was generated. A renewable energy credit from a customer-owned renewable system less than		
8	2 megawatts shall be valid for tax purposes two years after the date the renewable energy		Deleted:
9	credit is certified. However, a renewable energy credit shall be retired after it is used to		
10	comply with any regional, other state's RPS or federal renewable portfolio standard.	/ 	Deleted: the Florida or Deleted: other state.
11	(c) Any Florida rate-payer in any class (residential, commercial, industrial or other) who opts		
12	to purchase a REC from the RECs Market or opts to pay any premium in rate-paying price that		
13	bears any suggestion to be supporting renewable energy, must receive the tax credit associated		
14	with the premium paid.		
15	(3) Initially, the price of each renewable energy credit shall be capped at the equivalent of \$16		Deleted: (d) Renewable energy credits shall not be used for compliance with the Florida renewable portfolio standard if
16	per ton of net greenhouse gas emissions (GHG) reduced or avoided by Florida renewable		the renewable energy credit or its associated energy has already been counted toward compliance with any
17	energy resources relative to the GHG emissions otherwise emitted by the utility. The price		other state or federal renewable portfolio standard.¶ Deleted: (e) Renewable energy credits
18	cap shall be removed after one year and replaced by the market-based mechanism of supply		shall not be used for compliance with the Florida renewable portfolio standard if the renewable energy credit results from a
19	and demand in transparent transactions, with FL RECs prices no higher than 2x the national		Commission-approved demand-side conservation program pursuant to the Florida Energy Efficiency and
20	compliance average REC price. The REC price is also subject to any subsequent federal cap	.c	Conservation Act, Sections 366.8085 and 403.519, F.S.¶
21	and trade system.		Deleted: reevaluated Deleted: or phased out upon adoption
22	(4) Within 90 days from the effective date of this rule, the not-for-profit organization to	_ `\	Deleted: state or
23	administrate the electronic RECs Market shall file for Commission approval the structure,		Deleted: investor-owned electric utilities
24	governance, and procedures for administering the RECs market. The compliance filing shall,	/ /	Deleted: renewable energy credit Deleted: compliance
25			

CODING: Words $\underline{underlined}$ are additions; words in $\underline{struck\ through}$ type are deletions from existing law.

	at a minimum, provide provisions for the following:	
1		Deleted: utilities and
2	(a) a mechanism to buy, sell, and trade renewable energy credits generated by Florida	
3	renewable energy resources regardless of ownership of the asset;	
4	(b) the aggregation of renewable energy credits for customer-owned Florida renewable energy	
5	resources;	
6	(c) the certification and verification of renewable energy credits as defined in Rule 25-	
7	17.400(2)(f), F.A.C., including renewable energy credits resulting from Equivalent Solar	
8	Thermal Energy as defined in Rule 25-17.400(2)(k), F.A.C.;	Deleted: renewable portfolio standard
9	(d) an accounting system to verify compliance with the RPS Rule; and	Percent renewable portroite standard
10	(e) a method to record each transaction instantaneously, and to indicate whether the renewable	
11	energy credit is associated with a Class I or Class II renewable energy source as defined this	Deleted: in Rule 25-17.400(2)(d) and
12	RPS Rule.	(e), F.A.C.
13		
14	Specific Authority 350.127(2), 366.05(1), FS. Law Implemented 366.02(2), 366.04(2)(c), (5), (6), 366.041.	
15	366.05(1), 366.81, 366.82(1),(2), 366.91(2), 366.92 FS. History–New XX-XX-08.	
16		
17	III. Municipal and Rural Electric Coop Reporting	
18		
19	25-17.420 Municipal Electric Utility and Rural Electric Cooperative Renewable Energy	
20	Reporting	
21	(1) Each municipal electric utility and rural electric cooperative utility shall file with the	
22	Commission an annual report no later than April 1 of each year for the previous calendar year.	
23	Each utility's report shall include the following:	
24	(a) the retail sales of the prior year in megawatt-hours;	
25		
	CODING: Words <u>underlined</u> are additions; words in struck through type are deletions from existing law.	

1	(b) the quantity of self-generated renewable energy in megawatt-hours separated by fuel type;
2	(c) the quantity of renewable energy purchased in megawatt-hours, separated by type of
3	ownership and fuel type;
4	(d) the quantity and vintage of self-generated renewable energy credits;
5	(e) the quantity and vintage of renewable energy credits purchased;
6	(f) the fuel type and ownership of the Florida renewable energy resource associated with each
7	renewable energy credit;
8 9	Specific Authority 350.127(2), 366.05(1), FS. Law Implemented 366.02(2), 366.04(2)(c), (5), (6), 366.041. 366.05(1), 366.81, 366.82(1),(2), 366.91(2), 366.92 FS. History—New XX-XX-08.
10	
11	
12	
13	
14	
15	
16	
17	
18	
19 20	
20	
22	
23	
24	
25	
	CODING: Words <u>underlined</u> are additions; words in struck through type are deletions from existing law