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· 4	(1) is a linear protability model regression
	⇒ β, = average increase in probability of subacribing to the solar microgrid for a \$1 increase in price (or whitever the price wint is)
	for a 01 moreose in price (or whitever the price wint is)
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Stage 1: estimate the S's - estimate the mean utility of each choice, normalizing So (outside option) to O. Um the sungle Conditional Logat framework, this tow would be Situ = Bprice Prinity + Bavail Availity + \$itu estimated using S; tv = In S; tv - In Sotv (but would be filling I s; tv to S; tv using S's in mixed) Situ = share of market chasing; Soev = share of market choosing outside option Stage 2: Use S's to estimate linear equation: Situ = price Price jtv + Bavair Availity + Ejtv Here, experimental price variation of the treatment hope identify porice when j = solar microgrid. But other prices are still endogenous. Moreover, we may have a simulancity issue between prices because in a small village, it imagine that other electricity vendors would react to the lower microgrid price by lowering their prices.

_	Muestion a. u		
	N= N. (share not scrapped		girkan aran a a a a a a a a a a a a a a a a
	= N (P(not scrap) -= N (P(not scrap) + P(scrap))	H(p) + 1-H(p)	
	= N · H(p)	since p is equil. used car price and used car buyers make used care owners indifferent between fixing and selling	would
	= (1-U). H(p)	used can so in the equilibrium repair	
	= H(p) - U. H(p)		
	> U(1-H(p))= H(p)		
	$\Rightarrow U = \frac{H(\rho)}{1 - H(\rho)}$ in	equilibrium	
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· ·	Question 2b
	H(p) = shave of new vehicles not scrapped (could be sold on used market)
	$p-k=$ expected profit next period if can is repaired for k and sold at p $\Rightarrow H(p)(p-k)=$ expected total profit of a new can owner next period
	\Rightarrow $H(\rho)(\rho-k)$ = expected total profit of a new can owner next period
The second secon	

H(), G() me CDFs

> H(p) is monotonically increasing in p

> G (4 = p - H(p) (p-k)) is monotonically increasing in 4 monotonically decreasing in p

H(p) is monotonically increasing in p

⇒ if 4, p, K are initial values and 4, → 42 s.t. 42 > 4.

then G, (42-P,-H(p,)(p,-k)) > G, (4,-p,-H(p)(p,-k))

 $\Rightarrow f + \frac{H(\rho_2)}{1-H(\rho_2)} = Gr(4z-\rho_2-H(\rho_2)(\rho_2-\tilde{k})) \text{ is the new equil.}$

then if $\rho_2 > \rho_1$, the RHS will & from V_2 , ρ_1 and the LHS will 1 from ρ_1

if $\rho_2 = \rho_1$, LHS \neq RHS if $\rho_2 < \rho_1$, RHS \uparrow from Ψ_2 , ρ_1 \neq 50 LHS \neq RHS LHS \forall from Ψ_2 , ρ_1

:. Pz > p. in the new equilibrium

 \Rightarrow standards $1 \Rightarrow 41 \Rightarrow$ price of used cars 1

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	Q3.c Heterogenious leakage and costs
	firms; have leakage of (e; = 0; x;) 0; = # of emissions per unit x produced
13+ best allocation	SWF = $U(X) - \rho : \ge 0; x;$ $X = \ge x;$, $Q = marg. damage of CHy max SWF$
Planners tax problem	SWF, = $\mathcal{N}(\Sigma \times ; \{t\}) - \mathcal{O} \Sigma \mathcal{O}_{:} \cdot \times ; \{t\})$ where $\times ; \{t\} > \operatorname{argmax} T(\mathbf{x}) = \frac{1}{p - x} \cdot \frac{C_{:}(x_{:}) - C_{:}(x_{:})}{c}$
for no NMS	$= \frac{-9;(0,x)}{-1;(x)}$ arg max $T(x) = p \cdot x_j - C_j(x_j)$ $= n \circ (u contine to abate (tax on output) - t \cdot x_j$
Planners tax pro tor MMS	blem $SWF_z = U(\stackrel{>}{>}X; (H)) - 0 \stackrel{>}{>} 0; x, (H)$ $x_i(H) = argmax T(x_i) = q \cdot x_i - C_i(x_i) - f(0; x_i - a_i) - g_i(a_i)$
	$\alpha_j = \alpha_{mount} C H_{\gamma} \text{ abated}, g_i(\cdot) f_{irms} \text{ abatement cost.}$
	Want to know STM SWF2-SWF, to see if benefit to society is worth the cost.

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	Distributional impacts of policies are important for both the researcher
٠	wanting to inderstand the problem, and for the orber makes wenting to
	the formand and the later and and the later and
	losers of a policy by helping describle who is bearing the burden of a policy. High pass through indicates that consumers are experiencing
	a policy. Righ pass through indicates that consumers are experiencing
	more of the incidence of or the costs of a policy, and if demand is fairly inelastic, will probably be paying the cost of the policy (as appased to the policy)
	to taking loss vieredite li salt
	to taking from olizopolistic firm profits).
	If low-income groups are the primary consumer of a regulated and
	for example, high pass-through may indicate that low income groups are
	If bow-income groups are the primary consumer of a regulated good, for expurple, high pass-through may indicate that low income groups are paying the largest share of the casts.
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- Of you count regulate the emissions directly and must choose a related good to regulate, market showthine may determine where in the supply chain we choose to regulate. It may be more efficient to regulate a more competitive upstream source providing inputs than to regulate a downshown monopoly, depending on relative supply and demand characteristics in each market.
- 2 One large cast of regulation can be measurement & monitoring for compliance. It may be far less costly to monitor a consolidated market with few firms than to monitor a more dispersed downstream market with hundreds or thousands of firms.